

**CATALOGUE OF THE TYPE SPECIMENS OF TORTRICIDAE
(LEPIDOPTERA) IN THE COLLECTION OF THE NATIONAL MUSEUM OF
NATURAL HISTORY, SMITHSONIAN INSTITUTION, WASHINGTON, D.C.**

JOHN W. BROWN AND JON LEWIS

Systematic Entomology Laboratory, USDA, PSI, Agricultural Research Service, %
National Museum of Natural History, Washington, DC 20560-0168, U.S.A. (e-mail:
jbrown@sel.barc.usda.gov)

Abstract.—Type specimens of the family Tortricidae deposited in the collection of the National Museum of Natural History, Smithsonian Institution, are listed alphabetically by species (or subspecies), along with an abbreviated literature citation to the original description and collection data for the specimen. The type collection includes 1,001 name-bearing types of Tortricidae: 851 holotypes, 50 lectotypes (6 of which are designated herein), 60 species represented by one or more syntypes, 38 species represented by the only known extant specimen from the original series, 1 neotype, and 1 “pseudo-type.” The collection includes the vast majority of the tortricid species described by C. Fernald, A. Busck, C. Heinrich, J. Clarke, A. Blanchard, and A. Kawabe. It also includes the types of numerous species described by Lord Walsingham, W. Kearfott, H. Dyar, N. Obraztsov, J. Razowski, J. Powell, W. Miller, R. Brown, and J. Brown.

Key Words: leafrollers, lectotype, holotype, syntype, original description, host plants

The type collection of Tortricidae in the National Museum of Natural History (USNM), Smithsonian Institution, represents a significant worldwide resource for researchers interested in tortricid moths (i.e., the leafrollers). The strengths of the collection lie in the faunas of North and South America, the Orient (Japan, Taiwan, Philippine Islands), and Oceania. The C. H. Fernald Collection, purchased in 1924 (Clarke 1974), formed the foundation, containing types (primarily “cotypes”) of numerous species described by Fernald, Lord Walsingham, and W. D. Kearfott, and a few described by A. Grote, B. Clemens, and A. Packard. Walsingham sent Fernald “cotypes” of most of the species he described from California and Oregon (Walsingham 1879) from material in The Natural History Museum (formerly British Museum of Nat-

ural History). Kearfott also gave Fernald examples from his type series; the majority of Kearfott’s material eventually was deposited in the American Museum of Natural History, New York. Klots (1942) resolved most of the nomenclatorial difficulties associated with the Kearfott “cotypes,” designating numerous lectotypes, primarily in the collection of the American Museum of Natural History. Miller (1970) resolved most of nomenclatorial problems associated with the Fernald “cotypes,” designating lectotypes for the vast majority of his species of North American Olethreutinae. Few lectotypes have been designated for the Walsingham (1879) species from California and Oregon.

From 1905–1930 August Busck and Carl Heinrich, both U.S. Department of Agriculture employees at the museum, added

numerous tortricid types, primarily from North and South America, through their prolific taxonomic research on microlepidoptera. In particular, over 150 species were described by Heinrich (1923, 1926) in his revisions of the Olethreutinae of North America. Also during the early part of the century, Walsingham's (1914) contribution to the "Biologia Centrali-Americana" appeared; it included the descriptions of many new species, with most of the material split between The Natural History Museum and the USNM. By this time, Walsingham was designating a type for each new species, so there is little ambiguity regarding these primary types.

In the 1960s, revisions of New World genera by Obraztsov (1961, 1962, 1963, 1964, 1966a, b, c) resulted in the addition of many tortricid types to the USNM collection. From 1968–1982 specific large research projects such as Alexis Diakonoff's studies of the microlepidoptera of the Philippine Islands (Diakonoff 1968) and of Sri Lanka (Diakonoff 1982), and J. F. G. Clarke's work on Neotropical "Phalonidae" (Clarke 1968) and the microlepidoptera of Rapa Island and Micronesia (Clarke 1971, 1976) added many types of Tortricidae. The Blanchard Collection, donated in 1985 (Davis 1985), also added many tortricid types, nearly all from Texas. The Atsushi Kawabe collection, composed almost exclusively of Oriental species and donated in 1990 (Davis 1996), added significant numbers to the tortricid type collection as well, broadening greatly the geographic coverage. Use of the tortricid holdings of the USNM by specialists worldwide (e.g., Richard L. Brown, John W. Brown, John B. Heppner, William E. Miller, Jerry A. Powell, Josef Razowski, and others) has continued to increase type holdings.

Through recent curatorial efforts, the type specimens of the family Tortricidae have been organized into a single collection. The specimens are arranged in alphabetic sequence by species (or subspecies) in individual, labeled unit trays and stored in

13 insect drawers in the USNM. The purpose of this paper is to present a list of the type specimens. The list is arranged alphabetically by species (or subspecies), followed by the author, year of publication, and genus (or genus and species for subspecies) in which the taxon was originally described. This information is followed by an abbreviated citation of the publication in which the description appears. The sex, type designation (i.e., holotype, lectotype, syntype, "type", neotype, "pseudo-type"), and collection data also are included. We attempt to provide the maximum collection data, relying on both the text of the original description and information on specimen labels. For example, country, county, province, etc. frequently are not present on the specimen labels; this information is provided where retrievable accurately. Abbreviations used in the list include the following: AMNH = American Museum of Natural History, New York; BMNH = The Natural History Museum, London; NHMW = Naturhistorisches Museum, Wien; r.f. = reared from; em: = emerged; mi = mile(s); ' = feet (elevation). Where the collecting date can have more than one interpretation, it is presented in quotes. For example, "Aug. 8/15" could be interpreted as 8 August 1915 or 8–15 August [no year].

The modern practice of designating a holotype was not followed by most tortricid workers before 1900 (e.g., Riley, Grote, Zeller), and some early authors (e.g., Walsingham, Dyar) labeled all specimens of the original series as "type." Where the original type series consists of a single specimen, as clearly stated by the author, we refer to it as the holotype even though not specifically designated as such in the original description. Where only a single specimen is presumed still to be extant from the original series (and a type was not specifically designated), we refer to this specimen as the "type" (in quotes). In this case, the specimen is a potential lectotype because it may be the only remaining representative from the original series. Where two or more

specimens of the original series are present and no type was specifically designated in the original description, we refer to these specimens as syntypes. We defer the latter two cases to the future work of specialists to designate appropriate lectotypes for these, as needed. Six specimens are unpublished lectotypes unambiguously selected and labeled by Obratzsov ($n = 3$), Powell ($n = 2$), and Clarke ($n = 1$); these selections are designated in this paper.

The USNM tortricid type collection includes 851 holotypes, 50 lectotypes (6 of which are designated herein), 60 species represented by one or more syntypes, 38 "types" (i.e., the only known extant specimen from the original series), 1 neotype, and 1 "pseudo-type."

LIST OF SPECIES

- abiephaga* Issiki, 1962 (*Ariola*); in Issiki and Mutuura, Publ. Entomol. Lab. Univ. Osaka Pref. 7: 3. Holotype ♂, Japan, Honsyu, Koozuke, Manza, 27 July 1958, S. Issiki & T. Yasuda.
- abietana* Fernald, 1908 (*Argyroplote*); Canad. Entomol. 40: 349. Holotype ♂, USA, Massachusetts, Hampshire Co., Amherst. According to Fernald this species was "Described from three male specimens taken in Amherst, Mass., one of which I make the type . . ."
- abievora* Issiki, 1961 (*Epagoge*); in Issiki and Mutuura, Microlepidoptera injurious to coniferous plants in Japan: 34. Holotype ♂, Japan, Osaka, Ikeda, 20 November 1958, T. Kodama.
- abornana* Busck, 1939 (*Lorita*); Bull. South. Calif. Acad. Sci. 38: 101. Holotype ♀, USA, California, Los Angeles Co., El Segundo, r.f. *Cuscuta californica*, em: 11 July 1938, W. Pierce.
- abbreviatana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. British Museum 4: 54. Syntype ♂, USA, Pennsylvania. According to the original description, this species was described from two males from Washington [D.C. according to Heinrich 1923], August 1872. The other specimen is presumed to be in the BMNH. The USNM specimen bears the typical Walsingham "Type" label, but the collecting locality is not consistent with the original description.
- abundantia* Clarke, 1976 (*Heleanna physalodes*); Insects of Micronesia 9: 15. Holotype ♂, Micronesia, Kusaie, Pukusrik, 1 m, 3 April 1953, J. Clarke.
- accessa* Heinrich, 1931 (*Epinotia*); Proc. U.S. Natl. Mus. 79: 9. Holotype ♂, Panama, Trinidad River, March 1912, A. Busck.
- achlyoptera* Clarke, 1976 (*Cryptaspassma*); Insects of Micronesia 9: 58. Holotype ♀, Micronesia, Guam, Ritidian, 7 August 1945, J. Gressitt.
- acrocroca* Diakonoff, 1982 (*Acanthoclita*); Zool. Verhandl. (Leiden) 193: 28. Holotype ♂, Sri Lanka, Ratnapura District, Uggalkaltota, 350', Irrigation Bungalow, 31 January–8 February 1970, D. Davis & B. Rowe.
- acrosodia* Diakonoff, 1982 (*Spanistoneura*); Zool. Verhandl. (Leiden) 193: 9. Holotype ♂, Sri Lanka, Kandy District, 1,800', Peak View Motel, 15–24 January 1970, D. Davis & B. Rowe.
- adana* Heinrich, 1923 (*Rhyacionia*); Bull. U.S. Natl. Mus. 123: 18. Holotype ♂, USA, Massachusetts, Essex Co., Forest Hill, 5 April 1910, W. Raff.
- ademonia* Clarke, 1968 (*Irazona*); Proc. U.S. Natl. Mus. 125: 42. Holotype ♀, Costa Rica, La Florida, 500', W. Schaus.
- adjuncta* Heinrich, 1924 (*Gypsonoma*); J. Wash. Acad. Sci. 14: 389. Holotype ♂, Canada, Ontario, Toronto, June 1913, Parish.
- adobe* Brown, 1992 (*Catastega*); J. New York Entomol. Soc. 100: 224. Holotype ♂, USA, Arizona, Cochise Co., Chiricahua Mountains, 4 mi W Portal, 5,300', 3–6 August 1964, D. Davis.
- adoceta* Diakonoff, 1964 (*Bactra*); Zool. Verhandl. (Leiden) 70: 11. Holotype ♂, Brazil, Paraná, Castro, W. Schaus.
- aechnemorpha* Diakonoff, 1982 (*Gypsonoma*);

- ma*); Zool. Verhandel. (Leiden) 193: 48. Holotype ♂, Sri Lanka, Ratnapura District, Uggalkaltota, 350', Irrigation Bungalow, 31 January–8 February 1970, D. Davis & B. Rowe.
- aelina* Diakonoff, 1982 (*Cydia*); Zool. Verhandel. (Leiden) 193: 21. Holotype ♂, Sri Lanka, Ratnapura District, Uggalkaltota, 350', Irrigation Bungalow, 31 January–8 February 1970, D. Davis & B. Rowe.
- aenigmata* Powell, 1964 (*Acleris*); Univ. Calif. Publ. Entomol. 32: 99. Holotype ♂, USA, California, Nevada Co., Truckee, "Oct 8–15."
- aequilibra* Diakonoff, 1982 (*Aemulatrix*); Zool. Verhandel. (Leiden) 193: 3. Holotype ♂, Sri Lanka, Ratnapura District, Uggalkaltota, 350', Irrigation Bungalow, 31 January–8 February 1970, D. Davis & B. Rowe.
- aesculana* Riley, 1881 (*Proteopteryx*); Trans. St. Louis Acad. Sci. 4: 321. "Type" ♂, USA, Missouri, "boring the tender terminal twigs of Buckeye and of Maple . . ." Riley described this species from eight specimens; we have been able to locate only one. The specimen is clearly labeled "Type" in Riley's hand.
- aethalea* Obraztsov, 1964 (*Proeulia*); Proc. U.S. Natl. Mus. 116: 188. Holotype ♂, Chile, Santiago, La Obra, October 1952, L. Peña.
- aglaia* Clarke, 1955 (*Orthocomotis*); Trans. Royal Entomol. Soc. London 107: 149. Holotype ♀, Brazil, Rio de Janeiro, Itatiaia, 700 m, 12 October 1926, J. Zikán.
- agricolana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. British Museum 4: 42. Two syntypes (2 ♂♂), USA, California. This species was described from five males from California and Oregon, collected in May and June. As is typical of Walsingham specimens from this era, both of the syntypes cited above are labeled "Type." Neither has an abdomen; although there is a slide label attached to one of the specimens, the slide has not been found.
- ainslieana* Obraztsov, 1962 (*Anopina*); Am. Mus. Novit. 2082: 34. Holotype ♂, USA, New Mexico, Dona Ana Co., Mesilla, C. Ainslie.
- aktita* Miller, 1978 (*Rhyacionia*); in Powell and Miller, U.S. Dept. Agric., Agric. Handb. 514: 24. Holotype ♂, USA, New Jersey, Ocean Co., Lakehurst, 5 May 1962, R. Hodges.
- alaskae* Heinrich, 1923 (*Epinotia cruciana*); Bull. U.S. Natl. Mus. 123: 229. Holotype ♂, USA, Alaska, Yukon, 3 August 1916, G. Harrington [cited as "Huntington" by Heinrich]. The collecting locality, probably referring to Yukon River or some other locality in Alaska, is somewhat ambiguous because Yukon Territory is in Canada, not Alaska.
- albafascia* Heinrich, 1929 (*Ancylys*); Proc. U.S. Natl. Mus. 75: 19. Holotype ♂, USA, California, Tulare Co., Mineral King, "June 24–30."
- albicapitana* Busck, 1914 (*Evetria*); Proc. Entomol. Soc. Wash. 16: 147. Holotype ♂, Canada, Saskatchewan, Prince Albert, r.f. *Pinus divaricata*, em: 12 March 1914, J. Blumer. Although the type label indicates "*Evetria capitana*" rather than *albicapitana*, the USNM type number (Cat. No. 18444) and the collection data on the specimen match that given in the original description.
- albicaudana* Busck, 1915 (*Sparganothis*); Proc. Entomol. Soc. Wash. 17: 85. Holotype ♂, USA, Pennsylvania, Notch, r.f. maple, em: 5 July 1913, A. Busck.
- albiciliana* Fernald, 1882 (*Sericoris*); Trans. Am. Entomol. Soc. 10: 70. Lectotype ♂, USA, Maine, Penobscot Co., Orono. Designated by Miller (1970).
- albidula* Heinrich, 1926 (*Olethreutes buckellana*); Bull. U.S. Natl. Mus. 132: 189. Holotype ♂, USA, California, Inyo Co., 15–30 June 1922, O. Poling.
- albimaculana* Fernald, 1879 (*Grapholitha*); Canad. Entomol. 11: 157. Lectotype ♂,

- USA, Maine, Penobscot Co., Orono. Designated by Miller (1970).
- albipuncta* Heinrich, 1926 (*Bactra verutana*); Bull. U.S. Natl. Mus. 132: 84. Holotype ♂, USA, Colorado, Adams Co., Denver, Osler.
- albopunctana* Brown, 1999 (*Dimorphopallapa*); Pan-Pac. Entomol. 75: 85. Holotype ♂, Venezuela, Aragua, Rancho Grande, 1,100 m, 16–19 January 1966, S. & W. Duckworth.
- aliana* Kawabe, 1965 (*Clepsis*); Kontyû 34: 460. Holotype ♂, Japan, Kurodake (Hokkaido), Mt. Daisetsu, 22 July 1952, A. Matsura.
- alishana* Kawabe, 1986 (*Epiblema*); Entomol. Pap. Pres. Kurosawa, Tokyo: 82. Holotype ♂, Taiwan, Chiai Hsien, Alishan, 2,300 m, 7 August 1971, Y. Shibata.
- alleniana* Fernald, 1882 (*Tortrix*); Trans. Am. Entomol. Soc. 10: 68. "Type" ♂, USA, Maine, Penobscot Co., Orono, July. This species was described from three males and three females; we have been able to locate only one male. The specimen is clearly labeled as "Type" in Fernald's hand.
- allochroma* Diakonoff, 1968 (*Costosa*); Bull. U.S. Natl. Mus. 257: 81. Holotype ♂, Philippine Islands, Davao Province, Mindanao, E slope Mt McKinley, 5,600', 16 September 1946, CNHM Philippine Zool. Exped. 1946–47, H. Hoogstraal.
- alphabetica* Walsingham, 1914 (*Eucosma*); Biol. Centr.-Am., Lepid., Het. 4: 236. Holotype ♂, Mexico, Puebla, Popocatepetl [Park], 8–11,000', July 1906, W. Schaus. Described from a single specimen identified as "Type."
- alphitopa* Clarke, 1968 (*Hysterosia*); Proc. U.S. Natl. Mus. 125: 7. Holotype ♂, Venezuela, Aragua, Rancho Grande, 16–23 October 1966, S. & W. Duckworth.
- alterana* Heinrich, 1923 (*Thiodia*); Bull. U.S. Natl. Mus. 123: 46. Holotype ♂, USA, Maryland, Montgomery Co., Plummers Island, 1 August 1903, A. Busck.
- altissima* Kawabe, 1978 (*Eubrochoneura*); Tinea 10: 177. Holotype ♂, Japan, Honshu, Shizouka Pref., Odaru Spa, S Izu, 29 April 1968, A. Kawabe.
- amatana* Dyar, 1901 (*Eulia*); J. N. Y. Entomol. Soc. 9: 24. Three syntypes (3 ♀♀), USA, Florida, Palm Beach Co., Palm Beach, r.f. *Nectandra* [= *Ocotea*] (n = 1). Dyar described this species from the three specimens cited above.
- amblyopa* Clarke, 1976 (*Cryptophlebia*); Insects of Micronesia 9: 106. Holotype ♂, Micronesia, Palau Islands, Koror Island, Koror, January–May, light trap, Beardsley.
- ambodaidaleia* Miller, 1983 (*Phaneta*); Ann. Entomol. Soc. Am. 76: 101. Holotype ♀, USA, South Carolina, Berkeley Co., Wedge Plantation, McClellanville, 16 March 1968, D. Ferguson.
- ambogonium* Pogue, 1986 (*Apolychrosis*); in Cibrián-Tovar et al., Cone and Seed Insects of the Mexican Conifers: 21. Holotype ♂, Mexico, Mexico, San Miguel Atlautla, 2,500 m, r.f. *Pinus leiophylla*, em: 14 September 1983, W. Sanchez.
- americana* Fernald, 1882 (*Teras*); Trans. Am. Entomol. Soc. 10: 66. Lectotype ♂, USA, Massachusetts, "Cambr. B." [Cambridge?]. Designated by Obratzsov (1963).
- amoena* Kawabe, 1986 (*Phaecasiophora*); Entomol. Pap. Pres. Kurosawa, Tokyo: 77. Holotype ♂, Taiwan, Hualien Hsien, Hungyeh Spa, 200 m, 29–30 March 1984, A. Kawabe.
- amorphia* Clarke, 1986 (*Dichelopa*); Smithsonian Contrib. Zool. 416: 123. Holotype ♂, Marquesas Islands, Nuku Hiva, Tapuaooa, 2,500', 30 January 1968, J. Clarke.
- amphibola* Diakonoff, 1982 (*Diplosemaphora*); Zool. Verhandl. (Leiden) 193: 21. Holotype ♂, Sri Lanka, Ratnapura District, Uggalkaltota, 350', Irrigation

Bungalow, 31 January–8 February 1970, D. Davis & B. Rowe.

anaranjada Miller, 1959 (*Laspeyresia*); Florida Entomol. 42: 131. Holotype ♀, USA, Georgia, Crisp Co., Cordele, r.f. *Pinus palustris*, 21 May 1950, C. Speers.

anastea Diakonoff, 1968 (*Archidemis*); Bull. U.S. Natl. Mus. 257: 30. Holotype ♂, Philippine Islands, Davao Province, Mindanao, E slope Mt McKinley, 7,000', 22 September 1946, CNHM Philippine Zool. Exped. 1946–47, H. Hoogstraal.

anaxia Clarke, 1968 (*Amallectis*); Proc. U.S. Natl. Mus. 125: 32. Holotype ♀, Guatemala, Volcán Santa María, July, Schaus and Barnes.

andromedana Barnes & McDunnough, 1917 (*Olethreutes*); Contrib. Nat. Hist. Lepid. North Am. 3: 223. "Type" ♂, USA, Florida, Lee Co., Fort Meyers, r.f. *Andromeda*, "Apr 24–30." According to the original description, this species was described from two males and four females. Although a holotype was not designated, the specimen cited above is clearly labeled "Type."

angusana Fernald, 1892 (*Peronea*); Canad. Entomol. 24: 178. Two syntypes (1 ♂, 1 ♀), USA, New York, West Farms, J. Angus; and USA, Maine, Penobscot Co., Orono, 1 August 1884. According to the original description these two specimens comprise the type series.

animosana Busck, 1907 (*Tortrix*); J. N. Y. Entomol. Soc. 15: 235. Holotype ♀, Mexico, Jalapa, W. Schaus.

anisoneura Diakonoff, 1982 (*Eupoecilia*); Zool. Verhandl. (Leiden) 193: 6. Holotype ♂, Sri Lanka, Ratnapura District, Uggalkaltota, 350', Irrigation Bungalow, 31 January–8 February 1970, D. Davis & B. Rowe.

anisoptera Clarke, 1976 (*Dudua*); Insects of Micronesia 9: 95. Holotype ♂, Micronesia, Guam, Mt. Chachao, 16 May 1936, O. Swezey.

anthrocodelta Clarke, 1971 (*Dichelopa*);

Smithsonian Contrib. Zool. 56: 104. Holotype ♂, Rapa Island, Maugaoa, 950' (292 m), 23 November 1963, J. & T. Clarke.

aperta Diakonoff, 1968 (*Archips*); Bull. U.S. Natl. Mus. 257: 28. Holotype ♀, Philippine Islands, Luzon, Mountain Province, Baguio, 7 May 1945, J. Franclemont.

aporema Dognin, 1912 (*Cnephasia*); Heteroceres Nouveaux de L'Amerique du Sud 6: 49. Holotype ♂, Colombia, Fassel.

aporrhigma Clarke, 1986 (*Dichelopa phalaranthes*); Smithsonian Contrib. Zool. 416: 136. Holotype ♂, Marquesas Islands, Nuku Hiva, Tapuaoa, 2,500', 30 January 1968, J. & T. Clarke.

apospasta Obraztsov, 1964 (*Proeulia*); Proc. U.S. Natl. Mus. 116: 191. Holotype ♀, Chile, Concepcion, October 1902, E. Reed.

approximana Heinrich, 1919 (*Olethreutes*); Insect. Inscit. Menst. 7: 65. Holotype ♂, USA, New York, Rensselaer, rolling terminal leaves of loosestrife [*Lysimachia*], 12 June 1916, N.Y.S. Coll.

aprilana Grote, 1877 (*Exentera*); Canad. Entomol. 9: 227. Two syntypes (1 ♂, 1 ♀), USA, New York, Albany Co., Albany, April. According to the original description, this species was described from one male and one female collected the "end of April" by Lintner and Hill. The syntypes consist only of wings glued to pieces of cardboard: two forewings of the male, one forewing of the female. The sexes of the specimens are indicated on the specimen labels.

aquila Busck, 1914 (*Homona*); Proc. U.S. Natl. Mus. 47: 53. Holotype ♂, Panama, Cabima, May 1911, A. Busck.

arammclaina Razowski, 1987 (*Heppnerographa*); Bull. Polish Acad. Sci. 35: 64. Holotype ♂, Costa Rica, Cartago Province, Tuis, 28 May–4 June, W. Schaus.

argema Clarke, 1986 (*Dichelopa*); Smithsonian Contrib. Zool. 416: 152. Holotype ♀, Marquesas Islands, Fatu Hiva,

- Mt. Teoaiua, 2,000', 22 March 1968, J. & T. Clarke.
- argentifasciata* Heppner, 1989 (*Choristoneura*); Florida Entomol. 72: 104. Holotype ♂, USA, Florida, Glades Co., Fisheating Creek, Palmdale, 7–10 May 1964, R. Hodges.
- argentifurcatana* Grote, 1876 (*Conchylis*); Canad. Entomol. 8: 206. Syntype ♂, Canada, Ontario, Port Stanley, W. Saunders. Although the specimen bears a label "London, Ont.," according to the original description the specimens were taken at Port Stanley, by "W. Saunders from London, Ontario." The disposition of the other syntype is unknown to us.
- argentina* Brown, 1991 (*Cuproxena*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 64. Holotype ♀, Argentina, Misiones, Puerto Rico, 4–8 April 1971, C. & O. Flint.
- argillacea* Clarke, 1976 (*Ruthita*); Insects of Micronesia 9: 26. Holotype ♀, Micronesia, Guam, May 1936, O. Swezey.
- argodonta* Clarke, 1955 (*Orthocomotis*); Trans. Royal Entomol. Soc. London 107: 154. Holotype ♀, Brazil, "St. Catherines" [Santa Catarina], F. Johnson.
- argutipunctana* Blanchard & Knudson, 1983 (*Phaneta*); J. Lepid. Soc. 37: 143. Holotype ♂, USA, Texas, Hemphill Co., Canadian, 15 August 1971, A. & M. E. Blanchard.
- argyraspis* Razowski, 1984 (*Saphenista*); Ann. Zool. Warsaw 38: 278. Holotype ♀, Venezuela, Distrito Federal, 14 km NE Tovar, 28–29 February 1976, C. & O. Flint.
- argyrospiloides* Clarke, 1971 (*Dichelopa*); Smithsonian Contrib. Zool. 56: 118. Holotype ♀, Rapa Island, Maurua, 600' (184 m), 25 October 1963, J. Clarke.
- arizonana* Powell, 1975 (*Epiblema*); Pan-Pac. Entomol. 51: 101. Holotype ♂, USA, Arizona, Coconino Co., Oak Creek Canyon, Flagstaff, r.f. *Rudbeckia laciniata*, em: 28 June 1936, G. Englehardt.
- arizonensis* Heinrich, 1914 (*Evetria albicapitana*); Proc. U.S. Natl. Mus. 57: 57. Holotype ♂, USA, Arizona, Santa Catalina Mountains, r.f. *Pinus cembroides*, 23 June 1917, Hopkins no. 13977, G. Hofer.
- arrhostia* Clarke, 1968 (*Phtheochroa*); Proc. U.S. Natl. Mus. 125: 56. Holotype ♀, Peru, Cusco, Machu Picchu, 2,385 m, 5 March 1959, J. Clarke.
- arthuri* Dang, 1984 (*Cochylis*); Canad. Entomol. 116: 253. Holotype ♂, Canada, Saskatchewan, S.E. Saskatoon, r.f. *Helianthus* sp., August 1980.
- asthenia* Clarke, 1968 (*Carolella*); Proc. U.S. Natl. Mus. 125: 55. Holotype ♂, Guatemala, Palin, July, Schaus & Barnes.
- asynthetes* Diakonoff, 1968 (*Gatesclark-eana*); Bull. U.S. Natl. Mus. 257: 42. Holotype ♂, Philippine Islands, Cadiz, Occ. Negros, "3/8/29," Batabas.
- atascosana* Blanchard, 1979 (*Eucosma*); J. Lepid. Soc. 33: 212. Holotype ♂, USA, Texas, Cameron Co., Laguna Atascosa, 22 November 1973, A. & M. Blanchard.
- atayalicana* Kawabe, 1989 (*Acleris*); Tinea 12: 195. Holotype ♂, Taiwan, Hualien Hsien, Tayuling, forest, 2,500 m, 9–18 June 1980, D. Davis.
- atomosana* Busck, 1907 (*Phalonia*); J. N. Y. Entomol. Soc. 15: 22. Holotype ♂, USA, Pennsylvania, Allegheny Co., Pittsburgh, 17 August 1905, H. Engel.
- atomosana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 42. Syntype ♂, USA, California [San Francisco or Bear Valley according to the original description], May–June, 1871. This species was described from two males; the other syntype is presumably in the BMNH.
- atrata* Diakonoff, 1973 (*Lobesia*); Zool. Monogr. Rijksmus. Nat. Hist. 1: 382. Holotype ♂, Marianas Islands, Guam, Piti, "7/9/36," O. Swezey.
- atrilinea* Clarke, 1976 (*Cryptophlebia*); Insects of Micronesia 9: 115. Holotype ♀,

- Micronesia, Ponape, Colonia, 14 January 1953, J. Clarke.
- atriplaga* Clarke, 1976 (*Duessia*); Insects of Micronesia 9: 28. Holotype ♀, Micronesia, Rota, nr. Sabana, 21 June 1946, Townes 807, at light.
- atristriga* Clarke, 1953 (*Epinotia*); J. Wash. Acad. Sci. 43: 228. Holotype ♂, USA, Illinois, Putnam Co., 24 March 1938, M. Glenn. Although the collection date of the holotype is cited as "March 17, 1945" in the original description, the specimen listed above is unambiguously labeled as the holotype.
- atrodentana* Fernald, 1882 (*Eccopsis*); Trans. Am. Entomol. Soc. 10: 71. Lectotype ♂, Canada, Ontario, London, W. Saunders. Designated by Miller (1970).
- atsushii* Bae, 1993 (*Lobesia*); Japan. J. Entomol. 61: 516. Holotype ♂, Taiwan, Hualien Hsien, Mt. Hohuanshan, 3,100 m, 30 July–1 August 1983, A. Kawabe.
- audaculana* Busck, 1907 (*Archips*); J. N. Y. Entomol. Soc. 15: 235. Holotype ♀, Mexico, Veracruz, Orizaba, R. Muller.
- aurantia* Clarke, 1976 (*Adoxophyes*); Insects of Micronesia 9: 127. Holotype ♀, Micronesia, Ponape, Colonia, 12–17 January 1953, J. Clarke.
- aurantica* Busck, 1920 (*Epagoge*); Insect. Inscit. Menst. 8: 84. Holotype ♀, Costa Rica, Cartago Province, Juan Vinas, W. Schaus.
- auraria* Clarke, 1949 (*Eulia*); Acta Zool. Lilloana (Tucumán) 7: 583. Holotype ♂, Chile, Santiago Province, Cajon de Mayo, Cordillera, El Cencio, 12–20 January 1948, T. Ramirez.
- aurata* Diakonoff, 1968 (*Adoxophyes*); Bull. U.S. Natl. Mus. 257: 11. Holotype ♂, Philippine Islands, Luzon, Mt. Makiling, Baker.
- aureana* Busck, 1907 (*Phalonia*); J. N. Y. Entomol. Soc. 15: 26. Holotype ♀, USA, Pennsylvania, Allegheny Co., Oak Station, 17 June 1906, F. Marloff.
- aureola* Diakonoff, 1977 (*Nexosa*); Zool. Verhandl. (Leiden) 158: 15. Holotype ♀, British New Guinea, Hydrographer Mountains, 2,500', March 1918, Eichhorn Bros.
- auricaput* Razowski, 1971 (*Acleris*); Acta Zool. Cracov. 16: 550. Holotype ♀, Taiwan, Hassenzan, 6 June 1942, S. Issiki.
- aurichalceana* Riley, 1881 (*Melissopus*); Trans. St. Louis Acad. Sci. 4: 323. "Type" ♂, USA, Fernald, r.f. acorns, "1/6/76." Riley did not mention the number of specimens he examined; this is the only Riley specimen of *aurichalceana* we have been able to locate. It is labeled "Type" in Riley's hand.
- auricomana* Busck, 1907 (*Tortrix*); J. N. Y. Entomol. Soc. 15: 236. Holotype ♂, Mexico, June 1906, R. Muller.
- auriferana* Busck, 1911 (*Tortrix*); Proc. U.S. Natl. Mus. 40: 227. Holotype ♂, Brazil, Paraná, Castro, W. Schaus, "6187 Wlsm. 1908."
- austrina* Miller, 1985 (*Eucosma*); Ann. Entomol. Soc. Am. 78: 243. Holotype ♂, USA, Texas, Hemphill Co., Canadian, 15 August 1971, A. & M. Blanchard.
- azumina* Yasuda & Kawabe, 1980 (*Archips*); Tinea 11: 13. Holotype ♀, Japan, Nagano Pref., Azumi V., Shimajima-Dan, 780 m, 15 April 1977, N. Hibano.
- baccharivora* Pogue, 1988 (*Lorita*); Proc. Entomol. Soc. Wash. 90: 449. Holotype ♂, USA, Florida, Okeechobee Co., Lake Okeechobee, 27°N, 81°W, September 1984 (lab. reared), D. Green.
- baetrana* Heinrich, 1923 (*Eucosma*); Bull. U.S. Natl. Mus. 123: 117. Holotype ♂, USA, Colorado, San Juan Co., Silverton, "July 16–23."
- baea* Razowski, 1987 (*Transtillaspis*); Bull. Polish Acad. Sci. 35: 79. Holotype ♂, Colombia, Nariño, Volcán Galeras, 2,900 m, 13 January 1959, J. Clarke.
- bakeri* Diakonoff, 1968 (*Homona*); Bull. U.S. Natl. Mus. 257: 20. Holotype ♂, Philippine Islands, Luzon, Mt. Makiling, Baker.
- balia* Diakonoff, 1982 (*Acanthoclita*); Zool. Verhandl. (Leiden) 193: 30. Holotype

- ♂, Sri Lanka, Ratnapura District, Ug-galkaltota, 350', Irrigation Bungalow, 31 January–8 February 1970, D. Davis & B. Rowe.
- balioleuca* Clarke, 1976 (*Adoxophyes*); Insects of Micronesia 9: 136. Holotype ♂, Micronesia, Ponape, N. slope Tamatamansakir, 19 January 1953, J. Clarke.
- bana* Kearfott, 1907 (*Phalonia*); Trans. Am. Entomol. Soc. 33: 73. Lectotype ♂, USA, Illinois, Cook Co., Chicago, June, J. Reading. Designated by Klots (1942).
- banana* Busck, 1906 (*Lipoptycha*); Proc. Biol. Soc. Wash. 19: 182. Holotype ♂, USA, Colorado, South Park, Oslar.
- baracana* Busck, 1907 (*Hysterosia*); J. N. Y. Entomol. Soc. 15: 33. Holotype ♂, USA, Missouri, St. Louis Co., St. Louis, 11 July 1906, McElhose.
- bascanion* Razowski, 1987 (*Transtillaspis*); Bull. Polish Acad. Sci. 35: 75. Holotype ♂, Peru, Cusco, Machu Picchu, 2,700 m, 6 February 1959, J. Clarke.
- basipunctana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 40. Syntype ♀, USA, California, "Lower Lake," 22 June 1871. Walsingham described this species from two males and three females; the other syntypes are presumed to be in the BMNH.
- batesi* Heinrich, 1932 (*Talponia*); Proc. Entomol. Soc. Wash. 34: 20. Holotype ♂, Guatemala, Antigua, 5,000', r.f. *Annona cherimoia*, M. Bates.
- batoidea* Razowski, 1987 (*Transtillaspis*); Bull. Polish Acad. Sci. 35: 75. Holotype ♂, Peru, Cusco, Machu Picchu, 5 February 1959, J. Clarke.
- bauhiniae* Busck, 1934 (*Ancylis*); Entomol. Am. 13: 155. Holotype ♂, Cuba, Santiago de Vegas, Hab., leftier in *Bauhinia heterophylla*, 4 December 1931, R. Olera.
- bebela* Razowski, 1987 (*Transtillaspis*); Bull. Polish Acad. Sci. 35: 82. Holotype ♂, Colombia, Bogotá, Chico, 25 January 1959, J. Clarke.
- beckeri* Clarke, 1973 (*Eumarozia*); J. Lepid. Soc. 27: 269. Holotype ♂, Costa Rica, Cartago Province, Turrialba, r.f. *Juglans*, em: 29 August 1972, V. Becker.
- benjamini* Heinrich, 1923 (*Thiodia*); Bull. U.S. Nat. Mus. 123: 66. Holotype ♂, USA, Utah, Vineyard, 12 September 1912, T. Spalding.
- bicolor* Kawabe, 1963 (*Acleris*); Tyo to Ga 14: 70. Holotype ♂, Japan, Nagano Pref., Honshu, Naka-karuisawa, 23 September 1962, T. Maenami.
- bicolor* Kawabe, 1978 (*Aterpia*); Tinea 10: 174. Holotype ♂, Japan, Tsushima Island, Taterayama, 2 November 1973, T. Watanabe.
- bicolor* Powell, 1961 (*Decodes*); J. Lepid. Soc. 14: 122. Holotype ♀, USA, California, Napa Co., Mt. St. Helena, 18 April 1939, E. Johnston.
- bicolora* Kawabe, 1976 (*Zeiraphera*); Tinea 10: 42. Holotype ♂, Japan, Gunma Pref., Kumamoto, 14 July 1952, M. Hoshino.
- bicornigera* Razowski, 1984 (*Histura*); Acta Zool. Cracov. 27: 212. Holotype ♂, Colombia, Fassel.
- bicornis* Diakonoff, 1968 (*Homona*); Bull. U.S. Natl. Mus. 257: 18. Holotype ♂, Philippine Islands, Luzon, Los Baños, Baker.
- biemina* Kawabe, 1980 (*Apotomis*); Tinea 11: 18. Holotype ♂, Japan, Miyagi Pref., Tokatta, 13 September 1971, W. Watanabe.
- bigaulae* Brown, 1999 (*Eubetia*); J. New York Entomol. Soc. 106: 181. Holotype ♂, Venezuela, Aragua, Rancho Grande, cloud forest, 1,100 m, 30–31 March 1978, blacklight, J. Heppner.
- binotata* Brown & Obraztsov, 1991 (*Cuproxena*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 61. Holotype ♀, Brazil, Santa Catarina, 22 July 1935, F. Hoffman.
- biquadrana* Walsingham, 1876 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 45. Syntype ♂, USA, California, Shasta Co., Pitt River, "end of July" 1871. Walsingham described this species from

- two males; the other syntype is presumed to be in the BMNH.
- bira* Kawabe, 1976 (*Endothenia*); *Tinea* 10: 43. Holotype ♂, Japan, Ishikawa Pref., Anamizu, Bira, 18 August 1961, A. Kawabe.
- birdana* Busck, 1907 (*Hysterosia*); *J. N. Y. Entomol. Soc.* 15: 32. Holotype ♀, USA, New York, Rye, "bores *Helianthus*," H. Bird.
- biserrata* Brown, 1991 (*Paraptila*); *J. Lepid. Soc.* 44: 269. Holotype ♂, Costa Rica, Cartago Province, Turrialba, 22–28 February 1965, S. & W. Duckworth.
- bittana* Busck, 1906 (*Hemimene*); *Proc. Biol. Soc. Wash.* 19: 179. Holotype ♂, USA, Pennsylvania, Allegheny Co., Pittsburgh, 29 May 1905, H. Engel.
- blackmorei* Obraztsov, 1963 (*Acleris emargana*); *Proc. U.S. Natl. Mus.* 114: 208. Holotype ♂, Canada, British Columbia, Goldstream, 7 August 1923, E. Blackmore.
- blanchardi* Miller, 1978 (*Rhyacionia*); in Powell and Miller, *U.S. Dept. Agric., Agric. Handb.* 514: 19. Holotype ♂, USA, Texas, Montgomery Co., Conroe, 10 March 1968, A. & M. Blanchard.
- blechra* Razowski, 1987 (*Transtillaspis*); *Bull. Polish Acad. Sci.* 35: 79. Holotype ♂, Colombia, Nariño, Volcán Galeras, 2,900 m, 13 January 1959, J. Clarke.
- bobana* Kearfott, 1907 (*Eucosma*); *Trans. Am. Entomol. Soc.* 33: 26. "Type" ♂, USA, Colorado, Salida, 11 June 1888, W. Dietz. This species was described from three "co-types" (Salida, Colorado; Southwestern Colorado; Harris Co., Texas). Although Heinrich (1923) indicated that the "type" (from Salida, Colorado) was in the AMNH, Klots (1942) correctly identified the USNM as the place of disposition. Klots designated the AMNH specimen (Southwestern Colorado) as a "lectoparatype." The disposition of the third syntype is unknown.
- bolanderana* Walsingham, 1876 (*Paedisca*); *Ill. Lepid. Heter. Brit. Mus.* 4: 42. Two syntypes (2 ♂♂), USA, California, Siskiyou Co., Mount Shasta, August 1871. This species was described from three males and two females; the other syntypes are presumed to be in the BMNH.
- boliviae* Razowski, 1988 (*Proeulia*); *Acta Zool. Cracov.* 31: 407. Holotype ♂, Bolivia, Cochabamba, Incachaca, tropical cloud area, 2,100 m, 27 August–5 September 1956, L. Peña.
- boliviana* Brown, 1991 (*Bidorpitia*); in Brown and Powell, *Univ. Calif. Publ. Entomol.* 111: 75. Holotype ♀, Bolivia, Cochabamba, Incachaca, tropical cloud area, 2,100 m, 27 August–5 September 1956, L. Peña.
- boliviana* Razowski, 1984 (*Histura*); *Acta Zool. Cracov.* 27: 212. Holotype ♂, Bolivia, Cochabamba, Incachaca, tropical cloud area, 2,100 m, 27 August–5 September 1956, L. Peña.
- boscantica* Dognin, 1912 (*Tortrix*); *Heteroceres L'Amérique du Sud* 6: 48. Holotype ♂, Colombia, Cali, San Antonio, Fassel.
- bourquini* Clarke, 1949 (*Eulia*); *Acta Zool. Lilloana (Tucumán)* 7: 581. Holotype ♀, Brazil, Paraná, Castro, W. Schaus.
- brachistocera* Razowski, 1987 (*Transtillaspis*); *Bull. Polish Acad. Sci.* 35: 81. Holotype ♂, Colombia, Bogotá, Chico, 25 January 1959, J. Clarke.
- brachystigma* Clarke, 1965 (*Nesochoris*); *Proc. U.S. Natl. Mus.* 117: 76. Holotype ♂, Chile, Juan Fernandez Island, Masatierra, El Rabanal, 350 m, 27 February 1951, P. Kuschel.
- bracteata* Fernald, 1881 (*Grapholitha*); in Comstock, *Annu. Rept. Dept. Agric.* 1881: 265. Lectotype ♂, USA, California, Jolon, em: 13 September 1880. Designated by Miller (1970).
- bramiliana* Brown, 1991 (*Cuproxena*); in Brown and Powell, *Univ. Calif. Publ. Entomol.* 111: 61. Holotype ♂, Brazil, Rio de Janeiro, Petropolis, 600 m, 10 October 1985, S. Miller.
- brandinojuxta* Razowski, 1987 (*Transtillas-*

- pis*); Bull. Polish Acad. Sci. 35: 77. Holotype ♂, Bolivia, Cochabamba, Inca-chaca, tropical cloud area, 2,100 m, 27 August–5 September 1956, L. Peña.
- brauni* Heinrich, 1931 (*Anchylopera*); Proc. U.S. Natl. Mus. 79: 11. Holotype ♂, USA, Ohio, Adams Co., Beaver Pond, 11 May 1927.
- braziliana* Brown, 1991 (*Punctapinella*); Los Angeles Co. Mus. Contrib. Zool. 423: 4. Holotype ♀, Brazil, Santa Catarina, 20 November 1936, F. Hoffman.
- britana* Busck, 1906 (*Hemimene*); Proc. Biol. Soc. Wash. 19: 178. Lectotype ♂, Canada, British Columbia, Kaslo, H. Dyar. Designated by Miller (1983).
- britannia* Kearfott, 1904 (*Acleris*); Canad. Entomol. 36: 138. Holotype ♂, Canada, British Columbia, Kaslo, H. Dyar.
- broui* Knudson, 1986 (*Dichrorampha*); J. Lepid. Soc. 40: 323. Holotype ♂, USA, Louisiana, St. Tammany Parish, 4.2 mi NE Abita Springs, sec. 24, T6, SR 128, uv [light], 12 April 1985, V. Brou.
- brunana* Brown, 1990 (*Hynhamia*); Entomol. Scand. 21: 325. Holotype ♂, Peru, Angasmarca.
- brunneopurpuratum* Heinrich, 1923 (*Exartema*); Proc. Entomol. Soc. Wash. 25: 118. Holotype ♀, USA, Virginia, Fairfax Co., Falls Church, r.f. alder, em: 1 August 1913.
- bumeliana* Heinrich, 1926 (*Goditha*); Bull. U.S. Natl. Mus. 132: 8. Holotype ♂, USA, Texas, Dallas Co., Dallas, "*Dichrorampha boumelliana* Boll mss., two generations, June and Oct. in the rolled leaves of *Boumellia lanuginosa*." Although misspelled as "*rumeliana*" immediately prior to its description, it is spelled correctly as "*bumeliana*" previously on the same page, where it is identified as the type species of *Goditha*.
- burgessiana* Zeller, 1875 (*Phoxopteris*); Verhandl. Zool.-Bot. Ges. Wein 25: 252. "Type" ♀, USA, Massachusetts, Essex Co., Beverly, 18 June 1869. This species was described from a male and two females; the specimen listed above is the only Zeller specimen of *burgessiana* we could find.
- bumuna* Kawabe, 1989 (*Acleris*); Tinea 12: 196. Holotype ♀, Taiwan, Hualien Hsien, Tayuling, 2,560 m, 1 April 1984, A. Kawabe.
- busckana* J. A. Comstock, 1939 (*Pharmacis*); Bull. South. Calif. Acad. Sci. 38: 112. Holotype ♂, USA, California, Los Angeles Co., El Segundo, em: 16 November 1938, W. Pierce.
- busckana* Heinrich, 1923 (*Rhyacionia*); Bull. U.S. Natl. Mus. 123: 17. Holotype ♂, USA, New York, Nassau Co., Long Island, Bellmore, April 1913, G. Englehardt.
- busckana* Keifer, 1933 (*Clepsis*); Calif. Dept. Agric. Mon. Bull. 22: 351. Holotype ♂, USA, California, San Francisco, 8 February 1933, r.f. *Scophularia californica*, em: 3 March 1933, H. Keifer.
- buscki* Brown, 2000 (*Accuminulia*); J. Lepid. Soc. 53: 61. Holotype ♂, Chile, Santiago Province, reared from grape (fruit), em: 12 April 1954, M. Ramsay.
- bushiensis* Kawabe, 1980 (*Epinotia*); Tinea 11: 22. Holotype ♂, Japan, Saitama Pref., Bushi, Iruma, 20 October 1978, H. Inoue.
- bushnelli* Busck, 1914 (*Evetria*); Proc. Entomol. Soc. Wash. 66: 144. Holotype ♀, USA, New Mexico, Ft. Bayard, r.f. *Pinus ponderosa*, em: 19 March 1914, C. Bushnell.
- caeruleana* Walsingham, 1879 (*Grapholitha*); Ill. Lepid. Heter. Brit. Mus. 4: 66. Syntype ♂, USA, Oregon, Rouge River, May 1872. Walsingham described this species from one male and one female; the female is presumed to be in the BMNH.
- caeruleumana* Kawabe, 1980 (*Zeiraphera*); Tinea 11: 24. Holotype ♂, Japan, Akita Pref., Tamagawa, 2 September 1970, T. Watanabe.
- caesiata* Clarke, 1968 (*Cochylis*); Proc.

- U.S. Natl. Mus. 125: 18. Holotype ♀, Venezuela, Aragua, Rancho Grande, 1,100 m, 16–23 October 1966, S. & W. Duckworth.
- californiae* Heinrich, 1923 (*Hystrichophora strygiana*); Bull. U.S. Natl. Mus. 123: 256. Holotype ♂, USA, California, Lake Tahoe, Deer Park Springs, "July 8–15." Heinrich (1923) consistently misspelled *Hystrichophora* in his revision.
- callosoma* Clarke, 1976 (*Cryptophlebia*); Insects of Micronesia 9: 112. Holotype ♀, Micronesia, Guam, Pt. Oca, near Agana, 12 May 1945, Bohart & Gressitt.
- campestrana* Zeller, 1875 (*Sericoris*); Verhandl. Zool.-Bot. Ges. Wein 25: 282. "Type" ♂, USA [Maine or Massachusetts according to the original description], Packard. Zeller did not mention the number of specimens examined, although it is clear that he had both sexes. This is the only Zeller specimen of *campestrana* that we were able to find.
- campicolana* Walsingham, 1879 (*Cochylis*); Ill. Lepid. Heter. Brit. Mus. 4: 29. Two syntypes (♂, ♀), USA, California, Mendocino Co., 10 June 1871. Walsingham described this species from three males and two females; the other syntypes are presumed to be in the BMNH.
- canariana* Barnes & Busck, 1920 (*Hysterosia*); Contrib. Nat. Hist. Lepid. North Am. 4: 218. Holotype ♂, USA, Arizona, White Mountains.
- candidus* Pogue, 1986 (*Apolychrosis*); in Cibrián-Tovar et al., Cone and Seed Insects of the Mexican Conifers: 23. Holotype ♂, Mexico, Puebla, Atotocoyan, r.f. *Pinus strobus*, em: 2 October 1981, T. Mendez.
- canitia* Clarke, 1986 (*Dichelopa*); Smithsonian Contrib. Zool. 416: 149. Holotype ♀, Marquesas Islands, Nuku Hiva, Tapuaoa, 2,500', 30 January 1968, J. & T. Clarke.
- canofascia* Forbes, 1930 (*Olethreutes*); Sci. Surv. Porto Rico and Virgin Islands 12: 86. Holotype ♂, Puerto Rico, Rio Piedras, 10 July 1916, E. Smith.
- canusana* Wright, 1997 (*Phaneta*); in Wright, Brown and Gibson, J. Lepid. Soc. 51: 122. Holotype ♂, USA, Ohio, Adams Co., Lynx Prairie Preserve, Station 6, 17 March 1989, D. Wright.
- capitana* Busck, 1906 (*Hemimene*); Proc. Biol. Soc. Wash. 19: 178. Holotype ♂, USA, Colorado, South Park, Oslar.
- capizziana* Obraztsov, 1963 (*Acleris*); Proc. U.S. Natl. Mus. 114: 252. Holotype ♀, USA, Oregon, Bendon, 24 September 1956, J. Capizzi.
- capronata* Razowski, 1988 (*Ernocornutia*); Acta Zool. Cracov. 31: 398. Holotype ♂, Colombia, Cauca, Paramo de Parace, Lake San Rafael, 3,570 m, 27 January 1959, J. Clarke.
- carduana* Busck, 1907 (*Polychrosis*); J. N. Y. Entomol. Soc. 15: 134. Holotype ♀, USA, Maryland, Montgomery Co., Hyattsville, r.f. thistle, August 1906, A. Busck.
- carnana* Barnes & Busck, 1920 (*Tortrix*); Contrib. Nat. Hist. Lepid. North Am. 4: 214. Holotype ♂, USA, California, San Bernardino Co., San Bernardino Mountains, Camp Baldy, "June 24–20."
- carphagoides* Clarke, 1951 (*Cryptophlebia*); J. Wash. Acad. Sci. 41: 299. Holotype ♂, Argentina, Tucumán, r.f. seeds of pacará, K. Hayward.
- caryana* Fitch, 1856 (*Grapholitha*); New York Agric. Rept. 16: 459. Two syntypes (2 ♂♂), USA, New York [no data on specimen labels], "14,957," Type No. 394. Fitch did not indicate the number of specimens examined.
- cataclasta* Diakonoff, 1982 (*Dicnecidia*); Zool. Verhandl. (Leiden) 193: 42. Holotype ♂, Sri Lanka, Anuradhapura District, Wildlife Sanctuary Bungalow, Hunuwipagama, Wilpattu, 200', 10–19 March 1970, D. Davis & B. Rowe.
- cathedra* Clarke, 1976 (*Lobesia*); Insects of Micronesia 9: 105. Holotype ♂, Micronesia, Guam, Pt. Oca, 30 May 1945, Bohart & Gressitt.

- catopta* Razowski, 1988 (*Ernocornutia*); Acta Zool. Cracov. 31: 397. Holotype ♂, Colombia, Cauca, Paramo de Parace, Lake San Rafael, 3,570 m, 27 January 1959, J. Clarke.
- caulocatax* Razowski, 1984 (*Conchylis*); Ann. Zool. Cracov. 38: 278. Holotype ♂, Venezuela, Bolivar, Morichal Tauca, 22 km E Rio Caura, 8–9 February 1976, C. & O. Flint.
- celiae* Clarke, 1976 (*Laspeyresia*); Insects of Micronesia 9: 120. Holotype ♀, Micronesia, Yap Islands, Yap Island, Colonia, 21 June 1957, C. Sabrosky.
- celtisana* Riley, 1881 (*Paedisca*); Trans. St. Louis Acad. Sci. 4: 319. Holotype ♂, USA, Texas, r.f. *Celtis*, Boll. Riley described this species from one specimen.
- cephalanthana* Heinrich, 1921 (*Phalonia*); J. Agric. Res. 20: 825. Holotype ♂, USA, Texas, Charlotte, r.f. *Cephalanthus occidentalis*, em: 16 September 1918, C. Heinrich.
- cercocarpana* Dyar, 1903 (*Eucosma*); Proc. Entomol. Soc. Wash. 5: 297. Three syntypes (3 ♂♂), USA, Colorado, Platte Canyon, r.f. *Cercocarpus parvifolius*, Dyar & Caudell. Dyar described this species from three males and one female.
- cerinus* Kawabe, 1978 (*Neoanthamna*); Tinea 10: 182. Holotype ♂, Japan, Honshu, Nippara, Tokyo, 20 June 1964, A. Kawabe.
- cervinana* Fernald, 1882 (*Teras*); Trans. Am. Entomol. Soc. 10: 65. Lectotype ♂, USA, Massachusetts, Cambridge (?). Designated by Obraztsov (1963).
- chalcana* Packard, 1867 (*Conchylis*); Proc. Boston Soc. Nat. Hist. 11: 56. "Type" (sex unknown; only a forewing), Canada, Labrador, Strawberry Harbor, near Cape Webuc, 26 July. The description does not indicate how many specimens Packard examined, but the species is listed as "uncommon."
- chalybeana* Fernald, 1882 (*Peronea*); Trans. Am. Entomol. Soc. 10: 65. Two syntypes (1 ♂, 1 ♀), USA, New York, "L.I." [Long Island]. Of the three specimens referred to by Fernald (i.e., two males and one female from Orono, Maine and New York), only the two specimens from New York have been located by us.
- changi* Kawabe, 1989 (*Capua*); Tinea 12: 192. Holotype ♂, Taiwan, Haulien Hsien, Hohuanshan, 3,100 m, 30 July–1 August 1983, A. Kawabe.
- charma* Clarke, 1968 (*Phalonia*); Proc. U.S. Natl. Mus. 125: 16. Holotype ♀, Argentina, Tucumán, Ciudad Universitaria, 800 m, 17 February 1959, J. Clarke.
- chica* Brown, 1984 (*Corticivora*); Proc. Entomol. Soc. Wash. 86: 283. Holotype ♂, USA, Florida, Highlands Co., Lake Placid, Archbold Biol. Sta., 1–7 May 1964, R. Hodges.
- chiquitana* Barnes & Busck, 1920 (*Platynota*); Contrib. Nat. Hist. Lepid. North Am. 4: 213. Holotype ♂, USA, California, San Bernardino Co., Loma Linda.
- chlamydata* Dognin, 1912 (*Polyortha*); Heteroceres Nouveaux L'Amerique du Sud 6: 50. Holotype ♂, Colombia, Cali, San Antonio.
- chloromonas* Razowski, 1984 (*Chlorortha*); Acta Zool. Cracov. 27: 215. Holotype ♂, Venezuela, Aragua, Rancho Grande, 1,100 m, 16–23 October 1966, S. & W. Duckworth.
- chortodes* Diakonoff, 1968 (*Eudemis*); Bull. U.S. Natl. Mus. 257: 52. Holotype ♂, Philippine Islands, Mountain Province, Luzon, Baguio, 2 June 1945, J. Franclemont.
- chrysea* Heinrich, 1926 (*Bactra verutana*); Bull. U.S. Natl. Mus. 132: 85. Holotype ♂, USA, California, San Bernardino Co., Loma Linda, "March 24–30."
- cibdela* Razowski, 1988 (*Argyrotaenia*); Acta Zool. Cracov. 31: 409. Holotype ♂, Colombia, Cusco, Tambomachay, 3 February 1959, J. Clarke.
- cibriani* Miller, 1988 (*Rhyacionia*); J. Lepid. Soc. 42: 236. Holotype ♂, Mexico,

- Mexico, Paso de Cortes, r.f. *Pinus hartwegii*, 12 March 1984, D. Cibrián.
- cinderella* Riley, 1872 (*Acleris*); Board of Agric., 4th Annu. Rept. Noxious, Beneficial and Other Insects . . . of Missouri: 46. "Type" ♀, USA, Missouri [no data on specimen label], "928.P." The description does not indicate how many specimens Riley examined; this is the only Riley specimen of *A. cinderella* we could find. Although there is no indication in Riley's hand that it was among the original type series, two subsequent labels identify it as "type."
- cinereolineana* Heinrich, 1923 (*Thiodia*); Bull. U.S. Natl. Mus. 123: 52. Holotype ♂, USA, Utah, Juab Co., Eureka, 21 April 1910, T. Spalding.
- cirrholepida* Clarke, 1976 (*Icelita*); Insects of Micronesia 9: 43. Holotype ♂, Micronesia, Palau, Koror Island, Koror, 25 April 1957, C. Sabrosky.
- citrana* Fernald, 1889 (*Tortrix*); Entomol. Am. 5: 18. "Type" ♀, USA, California, "the larva had eaten into an orange from Coquillett." There is no indication of how many specimens Fernald examined; this specimen is clearly labeled "Type."
- citrogramma* Clarke, 1976 (*Cryptophlebia*); Insects of Micronesia 9: 115. Holotype ♀, Micronesia, Kusaie, Hill 541, 165 m, 18 April 1953, J. Clarke.
- claduncus* Razowski, 1988 (*Chilips*); Acta Zool. Cracov. 31: 389. Holotype ♂, Chile, Centro-Austral, January–March 1898, V. Izquierdo.
- clarkeana* Razowski, 1984 (*Polyortha*); Acta Zool. Cracov. 27: 224. Holotype ♀, Argentina, Tucumán, Ciudad Universitaria, 800 m, 17 February 1959, J. Clarke.
- clarkei* Blanchard & Knudson, 1983 (*Phaneta*); Proc. Entomol. Soc. Wash. 85: 847. Holotype ♂, USA, Texas, Hemphill Co., Canadian National Grassland, Lake Marvin, 9 October 1982, E. Knudson.
- clarkei* Diakonoff, 1964 (*Bactra*); Zool. Verhandel. (Leiden) 70: 8. Holotype ♂, British Guiana, Vrijheidslust, larva in stem of sedge (*Cyperus*), H. Moore.
- clarkei* Obraztsov, 1963 (*Acleris*); Proc. U.S. Natl. Mus. 114: 251. Holotype ♂, USA, Washington, Kittitas Co., Cle Elum, 9 April 1931, J. Clarke.
- clarkei* Obraztsov, 1966 (*Pseudomeritastis*); Proc. U.S. Natl. Mus. 118: 226. Holotype ♂, Colombia, Cauca, 17 km SE Popayan, 2,000 m, 10 January 1959, J. Clarke.
- clarki* Clarke, 1951 (*Corticivora*); J. Wash. Acad. Sci. 41: 46. Holotype ♂, USA, Connecticut, North Guilford, r.f. red pine (*Pinus resinosa*), G. Plumb.
- clavana* Fernald, 1882 (*Semasia*); Trans. Am. Entomol. Soc. 10: 72. Lectotype ♂, USA, Massachusetts, Truro, August 8. Designated by Miller (1970).
- clavosa* Diakonoff, 1973 (*Lobesia*); Zool. Monogr. Rijksmus. Nat. Hist. 1: 381. Holotype ♂, Samoa, Fagatogo, Tutuila, 12 August 1940, ex-*Trema*(?), O. Swezey.
- claypoleana* Riley, 1882 (*Steganoptycha*); Am. Nat. 16: 914. "Type" ♀, USA, Ohio, em: 2 June 1883. There are two identically labeled Riley specimens (i.e., "360L, Iss. June 2 '83"), one of which has a USNM type label affixed. The original description does not indicate how many specimens Riley examined.
- clemensiana* Fernald, 1879 (*Tortrix*); Canad. Entomol. 11: 155. Lectotype ♂ (designated here), USA, Maine/Massachusetts/New York/Wisconsin [no locality data on specimen label], 10 August 1880. Selected by Obraztsov in 1956. Fernald described this species from 20 males and 17 females; he did not designate a type specimen or a type locality, instead listing the states from which he had specimens.
- clenchi* Clarke, 1980 (*Proeulia*); J. Lepid. Soc. 34: 182. Holotype ♂, Chile, Desventuradas Islands, San Ambrosio Island, 450 m, 8 November 1960, G. Kuschel.

- cneca* Obraztsov, 1964 (*Proeulia*); Proc. U.S. Natl. Mus. 116: 193. Holotype ♂, Chile, Santiago, Guayacan, 1,100 m, October 1952, L. Peña.
- cockerellana* Kearfott, 1907 (*Tortrix*); Trans. Am. Entomol. Soc. 33: 71. Lectotype ♂, USA, Colorado, Garfield Co., Glenwood Springs, August 1889. Designated by Rubinoff and Powell (1999).
- cockleana* Kearfott, 1904 (*Enarmonia*); Canad. Entomol. 36: 137. Three syntypes as follows: Canada, Alberta, Banff, "VIII.9" (2 ♂♂) (one labeled "cotype," the other with a red USNM type label); Canada, Manitoba, Awene, 20 July 1905, Criddle (1 ♀) (labeled "cotype"). Although Klots (1942) designated lectotypes for nearly all other Kearfott Olethreutinae in the AMNH, he refers to "two paralectotypes" of this species.
- collilonga* Blanchard & Knudson, 1984 (*Pelochrista*); Proc. Entomol. Soc. Wash. 86: 446. Holotype ♂, USA, Texas, Brown Co., Lake Brownwood State Park, 21 April 1966, A. & M. Blanchard.
- coloradanus* Fernald, 1882 (*Lophoderus*); Trans. Am. Entomol. Soc. 10: 67. Two syntypes (1 ♂, 1 ♀), USA, Colorado. According to the original description, this species was described from one male and one female from Colorado.
- coloradensis* Adamski, 1986 (*Apotomis*); Canad. Entomol. 118: 662. Holotype ♂, USA, Colorado, Maysville, 17 August 1945, H. Ramstadt.
- coloradensis* Heinrich, 1920 (*Evetria colfaxiana*); Proc. U.S. Natl. Mus. 57: 55. Holotype ♂, USA, Colorado, Mount Manitou, r.f. cones of *Abies concolor*, 6 October 1915, J. Pollock, W. Edmonston, G. Hofer, and A. Champlain.
- comandrana* Fernald, 1892 (*Teras*); Canad. Entomol. 24: 121. Lectotype ♀, USA, Massachusetts, Hampshire Co., Amherst, "Hatch Ex. Station." Designated by Obraztsov (1963).
- comandranum* Clarke, 1953 (*Exartema*); J. Wash. Acad. Sci. 43: 230. Holotype ♂, USA, Illinois, Putnam Co., r.f. *Comandra umbellata*, 11 June 1942, M. Glenn.
- comstocki* Clarke, 1952 (*Sonia*); Bull. South. Calif. Acad. Sci. 51: 62. Holotype ♂, USA, California, San Diego Co., San Felipe Wash, 11 September 1938, J. Comstock.
- comstockiana* Fernald, 1879 (*Retinia*); Canad. Entomol. 11: 157. Lectotype ♂, USA, New York, Tompkins Co., Ithaca. Designated by Miller (1970).
- concitatricana* Heinrich, 1923 (*Gwendolina*); Bull. U.S. Natl. Mus. 123: 189. Holotype ♂, USA, Texas, Kerr Co., Kerrville, 1 June 1906, F. Pratt.
- concubitana* Heinrich, 1923 (*Gretchena*); Bull. U.S. Natl. Mus. 123: 181. Holotype ♂, USA, Florida, Leon Co., Monticello, r.f. "Hickoria" [*Carya*], 15 March 1914, J. Gill.
- conditana* Walsingham, 1879 (*Penthina*); Ill. Lepid. Heter. Brit. Mus. 4: 31. Syntype ♂, USA, California, Mendocino Co., 24 May 1871. Walsingham described this species from two males; the other syntype is presumed to be in the BMNH.
- confusa* Obraztsov, 1962 (*Anopina*); Am. Mus. Novit. 2082: 30. Holotype ♂, Mexico, Guerrero, Sierra de las Aguas Escondidas, 9,500', July, H. Smith.
- conigerana* Zeller, 1875 (*Tortrix*); Verhand. Zool.-Bot. Ges. Wien 25: 227. "Type" ♂, USA, Maine, Packard. Zeller described this species from one male from Maine, three females from Massachusetts, and one female from New York. This is the only specimen of the original series that we could find.
- coniogramma* Clarke, 1976 (*Eucosma*); Insects of Micronesia 9: 53. Holotype ♂, Micronesia, Kusaie, Pukusrik, 9-14 February 1953, J. Clarke.
- consacculuana* Brown, 1991 (*Dorithia*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 47. Holotype ♂, Mexico, Chiapas, San Cristóbal [de] las Casas, 17-21 July 1964, P. Spangler.

- consobrina* Busck, 1914 (*Homona*); Proc. U.S. Natl. Mus. 46: 54. Holotype ♀, Panama, Porto Bello, March 1911, A. Busck.
- consobrinana* Heinrich, 1923 (*Eucosma*); Bull. U.S. Natl. Mus. 123: 128. Holotype ♂, USA, South Dakota, Union Co., Elk Point, August 1913, C. Ainslie.
- consociana* Heinrich, 1923 (*Eucosma*); Bull. U.S. Natl. Mus. 123: 101. Holotype ♂, USA, Utah, Juab Co., Eureka, 23 July 1911, T. Spalding.
- constantia* Clarke, 1968 (*Cochylis*); Proc. U.S. Natl. Mus. 125: 22. Holotype ♀, Peru, Cusco, Machu Picchu, 2,700 m, 6 February 1959, J. Clarke.
- constellatana* Zeller, 1875 (*Sericoris*); Verhand. Zool.-Bot. Ges. Wein 25: 279. "Type" ♂, USA, New York, "2/71," Speyer. Zeller described this species from six males and two females from Ohio and New York. This is the only Zeller specimen of *S. constellatana* we could find.
- contrasta* Brown, 2000 (*Lobogenesis*); Proc. Entomol. Soc. Wash. 102: 32. Holotype ♂, Bolivia, Incachaca, Cochabamba, tropical cloud forest area, 2,100 m, 27 August–5 September 1956, L. Peña.
- contrastana* Kearfott, 1907 (*Commophila*); Canad. Entomol. 39: 160. Lectotype ♂, USA, Pennsylvania, Allegheny Co., Oak Station, 13 June 1907, F. Marloff. Designated by Klots (1942).
- conversana* Walsingham, 1879 (*Grapholitha*); Ill. Lepid. Heter. Brit. Mus. 4: 66. Syntype ♂, USA, Oregon, Camp Watson, "John Day's river," "beginning of April 1872." This species was described from three males and one female; the other syntypes presumably are in the BMNH.
- coppelia* Clarke, 1976 (*Icelita tatarana*); Insects of Micronesia 9: 36. Holotype ♂, Micronesia, Guam, Piti, 15 September 1936, r.f. *Intsia bijuga*, O. Swezey.
- cordiae* Busck, 1934 (*Ancylis*); Entomol. Am. 13: 154. Holotype ♂, Cuba, Havana, Santiago de Vegas, leaf tier on *Cordia globosa*, 26 November 1931, A. Otero.
- cornifolia* Riley, 1881 (*Phoxopteris*); Trans. St. Louis Acad. Sci. 4: 324. "Type" ♂, USA, Kansas, Riley Co., Manhattan, r.f. *Cornus paniculata*, em: 7 April 1873. Of two specimens referred to in the original description, this is the only specimen we have found.
- cornucopis* Walsingham, 1914 (*Enarmonia*); Biol. Centr.-Am., Lepid., Heter. 4: 240. Holotype ♀, Mexico, Oaxaca, Salina Cruz, W. Schaus. Described from the single female "Type."
- cornuta* Brown & Obraztsov, 1990 (*Cuproxena*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 53. Holotype ♂, Costa Rica, Cartago Province, Juan Vinas, W. Schaus.
- cornutana* Dyar, 1903 (*Epinotia*); Proc. Entomol. Soc. Wash. 5: 231. Holotype ♀, USA, Arizona, Coconino Co., Williams, "22.7," H. Barber. According to the original description, this species was described from a single female.
- cortesi* Clarke, 1987 (*Cryptophlebia*); Acta Entomol. Chileana 14: 8. Holotype ♂, Chile, Iquique Province, Region Tarapaca, Valle de Azapa, 25 m, r.f. *Acacia macracantha*, 10 January 1969, R. Mendoza.
- corylana* Fernald, 1882 (*Eccopsis*); Trans. Am. Entomol. Soc. 10: 71. Lectotype ♂, USA, New Hampshire, White Mountains. Designated by Miller (1970).
- corynetes* Diakonoff, 1982 (*Epinotia*); Zool. Verhand. (Leiden) 193: 59. Holotype ♂, Sri Lanka, Ratnapura District, Uggalkaltota, 350', Irrigation Bungalow, 31 January–8 February 1970, D. Davis & B. Rowe.
- cosmocosta* Razowski 1987 (*Coryssovalva*); Tinea 12(suppl.): 130. Holotype ♂, Colombia, Cauca, Paramo de Parace, Lake San Rafael, 3,570 m, 29 January 1959, J. Clarke.
- costaricana* Razowski 1984 (*Histurodes*); Acta Zool. Cracov. 27: 213. Holotype

- ♂, Costa Rica, San Pedro de Montes de Oca.
- costimaculana* Fernald, 1882 (*Penthina*); Trans. Am. Entomol. Soc. 10: 70. Lectotype ♀, USA, Maine, Penobscot Co., Orono, 17 June 1881. Designated by Miller (1970).
- costinotana* Franclemont, 1986 (*Lozotaenia*); Proc. Entomol. Soc. Wash. 88: 57. Holotype ♂, USA, Maine, Penobscot Co., Passadumkeag, 30 June 1956, J. Franclemont.
- cracens* Diakonoff, 1982 (*Eupoecilia*); Zool. Verhandl. (Leiden) 193: 6. Holotype ♂, Sri Lanka, NE District, Kanda-ela Reservoir, 5.6 mi SW Nuwara Eliya, 6,200', 10–21 February 1970, D. Davis & B. Rowe.
- crambitana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 43. Syn-type ♂, USA, California, Mount Shasta, August 1871. This species apparently was described from one male and one female; the female presumably is in the BMNH.
- cristata* Clarke, 1955 (*Orthocomotis*); Trans. Royal Entomol. Soc. London 107: 155. Holotype ♂, Costa Rica, Cachi, W. Schaus.
- crocoptila* Diakonoff, 1968 (*Peridaedala*); Bull. U.S. Natl. Mus. 257: 79. Holotype ♀, Philippine Islands, Davao Province, Mindanao, E slope Mt. McKinley, 7,000', 22 September 1946, CNHM Philippine Zool. Exped. 1946–47, H. Hoogstraal.
- cruentana* Blanchard & Knudson, 1981 (*Phaneta*); J. Lepid. Soc. 35: 169. Holotype ♂, USA, Texas, Anderson Co., Engeling Wildlife Management Area, near Tennessee Colony, 28 June 1978, A. & M. Blanchard.
- cryptica* Brown, 1991 (*Bidorpitia*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 75. Holotype ♀, Venezuela, Aragua, Rancho Grande, 1,100 m, 1–5 October 1966, S. & W. Duckworth.
- cupressi* Heinrich, 1923 (*Epinotia hopkinsana*); Bull. U.S. Natl. Mus. 123: 207. Holotype ♂, USA, California, Cypress Point, r.f. cones of *Cupressus macrocarpus*, 4 November 1915, J. Miller.
- cyanosticha* Clarke, 1976 (*Cymolomia*); Insects of Micronesia 9: 55. Holotype ♂, Micronesia, Kusaie, Hill 1010, 300 m, 13 April 1953, J. Clarke.
- cyclopiana* Heinrich, 1926 (*Polychrosis*); Bull. U.S. Natl. Mus. 132: 97. Holotype ♀, USA, New Jersey, Burnt Hills, r.f. seed pods of swamp magnolia, July 1920, H. Weiss.
- cydna* Razowski, 1993 (*Apotoforma*); Acta Zool. Cracov. 36: 185. Holotype ♀, Venezuela, Rancho Grande, 1,100 m, 16–23 October 1966, S. & W. Duckworth.
- cylichna* Razowski, 1994 (*Cylichneulia*); SHILAP Revta. Lepid. 22: 68. Holotype ♀, Venezuela, Aragua, Rancho Grande, 15–21 June 1967, 1,100 m, R. Poole.
- daemonicana* Heinrich, 1923 (*Eucosma*); Bull. U.S. Natl. Mus. 123: 111. Holotype ♂, USA, New Mexico, Manzano National Forest, Hell Cañon, "flying," 14 September 1916, C. Heinrich.
- dapsilis* Heinrich, 1929 (*Eucosma*); Proc. U.S. Natl. Mus. 75: 5. Holotype ♂, USA, Wyoming, Park Co., Yellowstone National Park, North Park.
- dativa* Heinrich, 1928 (*Rhyacionia*); Proc. Entomol. Soc. Wash. 30: 61. Holotype ♂, Japan, Yokohama, r.f. *Pinus thunbergii*, em: 1 July 1925, A. Kariya.
- davisi* Kawabe, 1989 (*Archips*); Tinea 12: 191. Holotype ♂, Taiwan, Hualien Hsien, Tayulin, 2,500 m, 9–18 June 1980, D. Davis.
- deceptana* Busck, 1907 (*Pharmacis*); J. N. Y. Entomol. Soc. 15: 29. Holotype ♀, USA, Texas, Kerr Co., Kerrville, W. Barnes.
- deceptiva* Clarke, 1949 (*Eulia*); Acta Zool. Lilloana (Tucumán) 7: 581. Holotype ♀, Brazil, Santa Catarina, Nova Teutonia, F. Plaumann.
- decor* Kawabe, 1978 (*Enarmonia*); Tinea

- 10: 188. Holotype ♂, Japan, Honshu, Chiba Pref., Tokiwadaira, 5 June 1977, A. Kawabe.
- decora* Obraztsov, 1966 (*Pseudomeritastis*); Proc. U.S. Natl. Mus. 118: 230. Holotype ♂, Bolivia, Cochabamba, Incachaca, tropical cloud area, 2,100 m, 27 August–5 September 1956, L. Peña.
- decorosa* Heinrich, 1929 (*Hystricophora*); Proc. U.S. Natl. Mus. 75: 20. Holotype ♂, USA, Florida, Enterprise, “4.16.” Heinrich (1923) consistently misspelled *Hystrichophora* in his revision.
- definitivana* Heinrich, 1923 (*Anchylopera*); Bull. U.S. Natl. Mus. 123: 270. Holotype ♂, USA, Nevada, “July 16–23.”
- deflexana* Heinrich, 1923 (*Epiblema*); Bull. U.S. Natl. Mus. 123: 144. Holotype ♂, USA, Texas, Cameron Co., Brownsville, 27 May 1917, A. Busck.
- delicata* Yasuda & Kawabe, 1980 (*Croeisia*); Tinea 11: 13. Holotype ♂, Japan, Nagano Pref., Okutatesina, 23 August 1963, A. Kawabe.
- delicatana* Heinrich, 1923 (*Gretchena*); Bull. U.S. Natl. Mus. 123: 185. Holotype ♂, USA, Pennsylvania, Allegheny Co., Oak Station, “May 1–10,” F. Marloff.
- delfinoides* Heinrich, 1923 (*Thiodia*); Bull. U.S. Natl. Mus. 123: 59. Holotype ♂, USA, Utah, Juab Co., Eureka, 16 July 1911, T. Spalding.
- delfinus* Heinrich, 1923 (*Thiodia*); Bull. U.S. Natl. Mus. 123: 45. Holotype ♂, USA, California, Lake Tahoe, Deer Park Springs, “July 1–7.”
- dendrophila* Clarke, 1971 (*Dichelopa*); Smithsonian Contrib. Zool. 56: 105. Holotype ♂, Rapa Island, Maugaoa, 950' (292 m), r.f. *Cyathea rapensis*, em: 3 November 1963, J. & T. Clarke.
- deprecatoria* Heinrich, 1926 (*Olethreutes*); Bull. U.S. Natl. Mus. 132: 177. Holotype ♂, Canada, British Columbia, Wellington, July, G. Taylor.
- derelicta* Heinrich, 1929 (*Eucosma*); Proc. U.S. Natl. Mus. 75: 13. Holotype ♂, USA, North Carolina, Polk Co., Tryon, 13 August 1904, Fiske.
- diabolana* Blanchard, 1979 (*Eucosma*); J. Lepid. Soc. 33: 214. Holotype ♂, USA, Texas, Culberson, Co., Sierra Diablo Wildlife Management Area, 6,000', 31 March 1970, A. & M. Blanchard.
- diamphidia* Clarke, 1968 (*Lasiothyris*); Proc. U.S. Natl. Mus. 125: 49. Holotype ♂, Peru, Cusco, Machu Picchu, 5 February 1959, J. Clarke.
- dicaeus* Diakonoff, 1968 (*Archips*); Bull. U.S. Natl. Mus. 257: 26. Holotype ♂, Philippine Islands, Luzon, Mt. Makiling, Baker.
- digitana* Heinrich, 1923 (*Epinotia*); Bull. U.S. Natl. Mus. 123: 215. Holotype ♂, Canada, British Columbia, Kaslo Creek, H. Dyar.
- dilutifusca* Walsingham, 1879 (*Sericoris*); Ill. Lepid. Heter. Brit. Mus. 4: 33. Syntype ♂, USA, southern Oregon, 2 June 1872. Walsingham described this species from two males; the other syntype is presumed to be in the BMNH.
- dimorpha* Clarke, 1949 (*Eulia*); Acta Zool. Lilloana (Tucumán) 7: 585. Holotype ♀, Brazil, Santa Catarina, 28 March 1936, F. Hoffman.
- dimorphana* Barnes & Busck, 1920 (*Tortrix*); Contrib. Nat. Hist. Lepid. North Am. 4: 215. Holotype ♂, Canada, British Columbia, Victoria.
- discobola* Diakonoff, 1968 (*Strepsicrates*); Bull. U.S. Natl. Mus. 257: 85. Holotype ♂, Philippine Islands, Davao Province, Mindanao, E slope Mt. McKinley, 7,200', 10 September 1946, mossy stunted forest, CNHM Philippine Exped. 1946–47, H. Hoogstraal.
- discretivana* Heinrich, 1921 (*Eucosma*); J. Agric. Res. 20: 823. Holotype ♂, USA, Texas, Harris Co., Sheldon, 10 April 1919, Johnson.
- dispersa* Brown, 1990 (*Auratonota*); Florida Entomol. 73: 154. Holotype ♂, Panama, Cocle Province, Valle, 22 April 1965, S. & W. Duckworth.
- disputabilis* Obraztsov 1963 (*Acleris*); Proc.

- U.S. Natl. Mus. 114: 262. Holotype ♂, Canada, British Columbia, Goldstream, 16 October 1902.
- dissitana* Grote, 1879 (*Ptycholoma*); North Am. Entomol. 1: 29. "Type" ♀, USA, 4 July 1878. This specimen, labeled "type" by someone other than Grote, is the only Grote specimen of *P. dissitana* we could locate. The original description does not indicate how many specimens were examined.
- distincta* Obraztsov, 1966 (*Pseudomeritastis*); Proc. U.S. Natl. Mus. 118: 228. Holotype ♀, Costa Rica, Cartago Province, La Florida, 500', W. Schaus.
- dognini* Obraztsov, 1966 (*Pseudatteria*); Proc. U.S. Natl. Mus. 118: 588. Holotype ♂, Ecuador, Environs of Loja, 1887.
- dominica* Brown, 1993 (*Auratonota*); Pan-Pac. Entomol. 69: 314. Holotype ♂, West Indies, Dominica, 1.7 mi E Point Casse, light trap, 24 March 1965, W. Wirth.
- domna* Clarke, 1968 (*Amallectis*); Proc. U.S. Natl. Mus. 125: 34. Holotype ♂, Colombia, Nariño, Volcán Galeras, 3,000 m, 14 January 1959, J. Clarke.
- donaldana* Kawabe, 1993 (*Notocelia*); Tinea 13: 238. Holotype ♂, Taiwan, Nantou Hsien, Mei-feng, 30 km S Tayuling, 2,200 m, 1-8 July 1980, D. Davis.
- doria* Clarke, 1976 (*Laspeyresia*); Insects of Micronesia 9: 123. Holotype ♂, Micronesia, Palau, Babelthuap, Ngarhelong, 1 May 1957, C. Sabrosky.
- dorsalana* Dyar, 1903 (*Tortrix*); Proc. Entomol. Soc. Wash. 5: 231. Syntypes (4 ♂♂, 2 ♀♀), USA, Arizona, Coconino Co., Williams, r.f. oak, em: 14 June 1901, A. Schwartz. According to the original description, Dyar described this species from four males and four females; all of the syntypes cited above are labeled "Type No. 6736 USNM," consistent with the original description.
- dorsata* Clarke, 1988 (*Dichelopa*); Smithsonian Contrib. Zool. 416: 133. Holotype ♀, Marquesas Islands, Hiva Oa, Mt. Feani, 3,400', 1 March 1968, J. & T. Clarke.
- druana* Walsingham, 1914 (*Tortrix*); Biol. Centr.-Am., Lepid., Heter., 4: 288. Holotype ♂, Mexico, Durango, r.f. cynipid gall on *Quercus*, em: 11 February 1897. This species was described from the single male.
- dryocremna* Meyrick, 1932 (*Polyortha*); Exotic Microlepidoptera 4: 343. Lectotype ♀ (designated here), Guatemala, Palin, Schaus & Barnes. Selected by J. Clarke. Meyrick's description indicates "6 ex. [examples] (type U.S. Nat. Mus.)."
- duckworthorum* Brown, 1991 (*Cuproxena*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 67. Holotype ♂, Costa Rica, Cartago Province, Turrialba, 17-21 February 1965, S. & W. Duckworth.
- dulciana* Heinrich, 1923 (*Gretchena*); Bull. U.S. Natl. Mus. 123: 182. Holotype ♂, USA, New Jersey, Greenwood Lake, "V.30," W. Kearfott.
- dysmorphia* Clarke, 1968 (*Lasiothyris*); Proc. U.S. Natl. Mus. 125: 47. Holotype ♂, Bolivia, Cochabamba, Incachaca, tropical cloud area, 2,100 m, 27 August-5 September 1956, L. Peña.
- eburata* Heinrich, 1929 (*Eucosma*); Proc. U.S. Natl. Mus. 75: 6. Holotype ♂, USA, Arizona, Mohave Co., "Aug. 24-31."
- edemoidana* Dyar, 1903 (*Eucosma*); Proc. Entomol. Soc. Wash. 5: 229. Two syntypes (2 ♀♀), USA, Arizona, Coconino Co., Williams, "19-7," W. Barnes; USA, New Mexico, Las Vegas HS, "18.8." According to the original description, this species was described from the two females cited above.
- egens* Razowski, 1999 (*Netechma*); Polskie Pismo Entomol. 68: 97. Holotype ♂, Colombia, Nariño, Volcán Galeras, 2,900 m, 13 January 1959, J. Clarke. Razowski (1999) incorrectly identifies the disposition of the type as NHMW.
- elaborata* Kawabe, 1976 (*Pseudohedya*);

- Tinea* 10: 45. Holotype ♂, Japan, Aomori Pref., Tuta Spa, 20 July 1957, A. Kawabe.
- eleonora* Obraztsov, 1962 (*Anopina*); Am. Mus. Novit. 2082: 12. Holotype ♂, USA, Arizona, Apache Co., Alpine, 6 June 1937, G. & J. Sperry.
- elitha* Clarke, 1976 (*Heleanna physalodes*); Insects of Micronesia 9: 19. Holotype ♂, Micronesia, Ponape Island, Colonia, 13 January 1953, J. Clarke.
- elongana* Brown, 1990 (*Cuproxena*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 54. Holotype ♂, Venezuela, Amazonas (territory), Cerro de Neblina Camp VII, 1,850 m, 0°51'N, 65°58'W, 2–4 December 1984, Brown.
- embaphion* Razowski, 1984 (*Saphenista*); Ann. Zool. Warsaw 38: 276. Holotype ♂, Venezuela, Mérida, 8 km SE Apartaderos, 22 February 1976, C. & O. Flint.
- embolina* Razowski, 1984 (*Saphenista*); Ann. Zool. Warsaw 38: 277. Holotype ♀, Venezuela, Mérida, 4 km S Santo Domingo, 19–23 February 1976, C. & O. Flint.
- emera* Razowski, 1993 (*Acleris*); Acta Zool. Cracov. 36: 191. Holotype ♂, Bolivia, Cochabamba, Incachaca, 27 August–5 September 1956, L. Peña.
- emigratella* Busck, 1909 (*Amorbia*); Proc. Entomol. Soc. Wash. 11: 201. Syntype ♂, Hawaiian Islands, Oahu, Tantulus, O. Swezey. Busck did not indicate how many specimens he examined.
- enucleata* Razowski, 1999 (*Netechma*); Polskie Pismo Entomol. 68: 95. Holotype ♂, Colombia, Nariño, Volcán Galeras, 300 m, 14 January 1959, J. Clarke. Razowski (1999) incorrect identifies the disposition of the type as NHMW.
- episticta* Clarke, 1949 (*Eulia*); Acta Zool. Lilloana (Tucumán) 7: 584. Holotype ♂, Brazil, Santa Catarina, Nova Teutonia, September 1948, F. Plaumann.
- equadora* Brown, 1990 (*Paraptila*); J. Lepid. Soc. 44: 271. Holotype ♂, Ecuador, Shell-Mera, 18 April 1958, R. Hodges.
- erigeronana* Riley, 1881 (*Conchylis*); Trans. St. Louis Acad. Sci. 4: 316. Holotype ♂, USA, Texas, Columbia, r.f. "cecidomyidous gall on *Erigeron*," em: 24 February 1879, E. Schwarz. Riley described this species from a single specimen.
- erotella* Heinrich, 1923 (*Carpocapsa*); Proc. Entomol. Soc. Wash. 25: 121. Holotype ♀, USA, Maryland, Montgomery Co., Hyattsville, r.f. *Pinus taeda*, em: 22 May 1915, A. Busck.
- erubescens* Kawabe, 1978 (*Gypsonoma*); *Tinea* 10: 187. Holotype ♂, Japan, Hokkaido, Sapporo, Matuyama Park, 30 July 1950, A. Mutsuura.
- escharia* Clarke, 1976 (*Trymalitis*); Insects of Micronesia 9: 142. Holotype ♂, Micronesia, Guam, Ritidian, 2 August 1945, J. Gressitt.
- essigana* Busck, 1929 (*Amorbia*); Calif. Dept. Agric. Mon. Bull. 18: 276. Holotype ♂, USA, California, San Diego Co., Chula Vista, r.f. avocado leaves, 8 December 1928, R. McLean.
- ethnica* Heinrich, 1923 (*Epinotia*); Bull. U.S. Natl. Mus. 123: 201. Holotype ♂, USA, California, San Diego Co., San Diego, "June 16–23."
- euchaldera* Clarke, 1955 (*Orthocomotis*); Trans. Royal Entomol. Soc. London 107: 146. Holotype ♂, Colombia, June 1909, Fassel.
- eupista* Diakonoff, 1968 (*Stenarchella*); Bull. U.S. Natl. Mus. 257: 99. Holotype ♂, Philippine Islands, Davao Province, Mindanao, La Lum Mt., Calian, 5,000', 29–21 December 1920, Clagg, CM Acc. 9163.
- evestigana* Razowski, 1984 (*Polyortha*); Acta Zool. Cracov. 27: 221. Holotype ♂, El Salvador, Cerro Miramundo, 2,300 m, 11 January 1969, S. Steinhäuser.
- exacerbatricana* Heinrich, 1923 (*Epiblema*); Bull. U.S. Natl. Mus. 123: 146. Ho-

- lotype ♂, USA, North Carolina, Southern Pines, "Aug. 16–23."
- exaeresimum* Heinrich, 1926 (*Exartema*); Bull. U.S. Natl. Mus. 132: 160. Holotype ♂, USA, Texas, Dallas Co., Dallas.
- exceptionana* Heinrich, 1923 (*Eucosma*); Bull. U.S. Natl. Mus. 123: 117. Holotype ♂, USA, Nevada, Washoe Co., Verdi, "June 1 to 10," A. Vachell.
- excluseriana* Heinrich, 1923 (*Eucosma*); Bull. U.S. Natl. Mus. 123: 110. Holotype ♂, USA, Texas, La Salle Co., Cottulla, 12 May 1906, Crawford & Pratt.
- excusabilis* Heinrich, 1923 (*Eucosma*); Bull. U.S. Natl. Mus. 123: 123. Holotype ♂, USA, California, Lake Tahoe, Deer Park Springs.
- exolivata* Clarke, 1955 (*Orthocomotis*); Trans. Entomol. Soc. London 107: 148. Holotype ♀, Brazil, Santa Catarina, Nova Teutonia, August 1936, H. Parish.
- exomilana* Franclemont, 1986 (*Lozotaenia*); Proc. Entomol. Soc. Wash. 88: 58. Holotype ♂, USA, North Carolina, Macon Co., Highlands, 3,865', 11 July 1958, J. Franclemont.
- exoristus* Razowski, 1988 (*Exoletuncus*); Acta Zool. Cracov. 31: 390. Holotype ♂, Colombia, Cauca, Paramo de Parce, Lake San Rafael, 3,570 m, 29 January 1959, J. Clarke.
- exopolitana* Heinrich, 1923 (*Eucosma*); Bull. U.S. Natl. Mus. 123: 132. Holotype ♂, USA, Utah, Utah Co., Provo, 11 August 1908, T. Spalding.
- exulis* Issiki & Stringer, 1932 (*Gnorismo-neura*); Stylops 1: 125. Holotype ♂, Taiwan, Taihoku, 18 October 1923, S. Issiki.
- famula* Zeller, 1875 (*Teras tristana*); Verhandl. Zool.-Bot. Ges. Wien 25: 214. Lectotype ♂, North America [no collecting data]. Designated by Obraztsov (1963). Zeller's original description refers to a male, consistent with the specimen cited above. However, the associated Busck genitalia slide (Dec 6 1924; USNM 25944) is of a female, and Obraztsov's (1963: 236) lectotype designation also refers to the specimen as female.
- fernaldana* Grote, 1880 (*Paedisca*); N. Am. Entomol.: 98. "Type" ♂, USA, Colorado. This is the only Grote specimen of *fernaldana* we could locate; it bears a labeling identifying it as the type, but not in Grote's hand. The original description does not indicate how many specimens were examined.
- fernaldana* Walsingham 1879 (*Cochylis*); Ill. Lepid. Heter. Brit. Mus. 4: 27. Syntype ♂, USA, northern California, September 1871. This species was described from four males and one female; all of the other syntypes are presumed to be in the BMNH.
- ferreana* Busck, 1915 (*Sparganothis*); Proc. Entomol. Soc. Wash. 17: 86. Holotype ♀, USA, New York, Herkimer Co., Ilion, 10 July 1912, H. McElhose.
- ferruginana* Fernald, 1882 (*Semasia*); Trans. Am. Entomol. Soc. 10: 72. Lectotype ♀, USA, Massachusetts, Goodell. Designated by Miller (1970).
- ferrugineana* Riley, 1881 (*Exartema*); Trans. St. Louis Acad. Sci. 4: 317. "Type" ♂, USA, Missouri, St. Louis Co., St. Louis, r.f. leaves of plum. Riley described this species from two males, only one of which could be located by us.
- ferruginiguttana* Fernald, 1882 (*Teras*); Trans. Am. Entomol. Soc. 10: 65. "Type" ♀, USA, Colorado. Of two females that comprised the type series, we could find only one. It is represented by a portion of the thorax bearing a single leg and a small piece of the left forewing.
- ferruginus* Pogue, 1986 (*Apolychrosis*); in Cibrián-Tovar et al., Cone and Seed Insects of the Mexican Conifers: 21. Holotype ♂, Mexico, Tlaxcala, Municipio de Terrenate, Villareal, r.f. *Pseudotsuga macrolepis*, em: 18 August–6 September 1981, J. Mendez & R. Campos.
- fertoriana* Heinrich, 1923 (*Thiodia*); Bull.

- U.S. Natl. Mus. 123: 264. Holotype ♂, Canada, British Colombia, Goldstream, "10-5-03."
- filiana* Busck, 1907 (*Hendecaneura*); J. N. Y. Entomol. Soc. 15: 135. Holotype ♂, USA, California, Riverside Co., West Riverside, 26 October 1905.
- finitimana* Heinrich, 1923 (*Kundrya*); Bull. U.S. Natl. Mus. 123: 192. Holotype ♂, USA, New Hampshire, Rockingham Co., Hampton, 11 June 1909, S. Shaw.
- fishiana* Fernald, 1882 (*Peronea*); Trans. Am. Entomol. Soc. 10: 66. Lectotype ♂, USA, Maine, Penobscot Co., Orono, 17 September 1879. Designated by Obraztsov (1963).
- flavana* Fernald, 1905 (*Eucosma pergan-deana*); Canad. Entomol. 37: 399. Lectotype ♂, USA, Texas. Designated by Miller (1970).
- flavibasana* Fernald, 1882 (*Cenopsis*); Trans. Am. Entomol. Soc. 10: 69. Lectotype ♂ (designated here), USA, Illinois. Selected by Powell in 1965. Although there is little doubt that the lectotype is one of 2 specimens referred to in the original description, Fernald misidentified the sex, indicating two females, one from Texas and one from Illinois.
- flavifasciana* Kawabe, 1976 (*Olethreutes*); Tinea 10: 47. Holotype ♀, Japan, Gunma Pref., Kuridaira, 20 July 1951, M. Hoshino.
- flavillana* Dyar, 1903 (*Epinotia*); Proc. Entomol. Soc. Wash. 5: 230. Three syntypes (1 ♂, 2 ♀♀), USA, Arizona, Coconino Co., Williams, bred from flower stalk, June. According to the original description, this species was described from three specimens.
- flexicostalis* Dognin, 1908 (*Tortrix*); Ann. Soc. Entomol. Belgium 52: 32. Holotype ♂, Peru (SE), Oconeque, Carabaya, "10.07," Warren.
- flexura* Clarke, 1986 (*Dichelopa*); Smithsonian Contrib. Zool. 416: 124. Holotype ♂, Marquesas Islands, Hiva Oa, Feani, 3,800', 20 February 1968, J. & T. Clarke.
- flintana* Brown, 1991 (*Cuproxena*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 69. Holotype ♀, Mexico, Jalisco, Rt. 94, km 42, N Chapala [4 mi toward Guadalajara from Chapala; top of hill], 16–18 July 1966, O. Flint & A. Ortiz.
- footiana* Fernald, 1882 (*Eccopsis*); Bull. Buffalo Soc. Nat. Sci. 4: 53. Lectotype ♀, USA, New York. Designated by Miller (1970).
- formosanus* Kawabe, 1987 (*Archippus*); Tinea 7: 122. Holotype ♂, Taiwan, Chiayi, Alishan, 2,200 m, 9–11 July 1964, H. Inoue.
- foxcana* Kearfott, 1907 (*Phalonia*); Trans. Am. Entomol. Soc. 33: 84. Lectotype ♂, USA, Ohio, Hamilton Co., Cincinnati, 18 August 1903, A. Braun. Kearfott described this species from three specimens from Cincinnati, Ohio, and Plummers Island, Maryland, with no indication of which locality was the source of two of the three. Klots (1942) designated the above-mentioned lectotype, indicating that there were two lectoparatypes in the AMNH: a female from Plummers Island and another specimen without an abdomen (he didn't provide its collection data). Although he correctly cited the date of collection of the lectotype, he incorrectly cited its collection locality as Plummers Island.
- fragariae* Walsh & Riley, 1869 (*Anchylopera*); Am. Entomol. 1: 89. Lectotype ♀, USA, Illinois, Whiteside or Bureau Co. According to the original description, this species was described from nine specimens, only two of which could be located by us. Designated by Miller (1973).
- fragariana* Busck, 1919 (*Tortricodes*); Proc. Entomol. Soc. Wash. 21: 52. Holotype ♂, Canada, British Columbia, Victoria, 17 August 1918.
- frangula* Clarke, 1968 (*Amallectis*); Proc. U.S. Natl. Mus. 125: 30. Holotype ♀, Venezuela, Aragua, Rancho Grande,

- 1,100 m, 16–23 October 1966, S. & W. Duckworth.
- fraternana* Busck 1907 (*Hendecaneura*); J. N. Y. Entomol. Soc. 15: 134. Holotype ♂, USA, California, Riverside Co., West Riverside, October.
- fratrueis* Heinrich, 1923 (*Eucosma*); Bull. U.S. Natl. Mus. 123: 98. Holotype ♂, USA, North Carolina, Southern Pines, 8–15 August.
- fraudabilis* Heinrich, 1923 (*Eucosma*); Bull. U.S. Natl. Mus. 123: 98. Holotype ♂, USA, North Carolina, Southern Pines. According to the original description, the type series was collected between 1 June and 23 July.
- fritillana* Blanchard & Knudson, 1981 (*Eucosma*); J. Lepid. Soc. 35: 170. Holotype ♂, USA, Texas, Anderson Co., Engeling Wildlife Management Area, near Tennessee Colony, 28 June 1978, A. Blanchard.
- frustrana* W. Comstock, 1880 (*Retinia*); Rept. U.S. Dept. Agric. 1879: 236. Lectotype ♀, USA, Virginia, near Washington (D.C.), "*Tortrix* on *P. inops*," em: 18 June 1879. Designated by Miller (1967).
- fucana* Walsingham, 1879 (*Lozotaenia*); Ill. Lepid. Heter. Brit. Mus. 4: 12. Syntype ♂, USA, Oregon (southern), May 1872. This species was described from four males; the other syntypes are presumably in the BMNH.
- fullerea* Riley, 1869 (*Penthina*); J. Horticult., Boston, Oct. 1868: 12. "Type" ♀, USA, "seed pods of *Antherrinum*." An associated label indicates that the specimen is an unpublished lectotype selected by Miller in 1982. Riley did not indicate how many specimens he examined.
- fulvomixtana* Kawabe, 1974 (*Zeiraphera*); Tyo to Ga 25: 98. Holotype ♂, Japan, Gunma Pref., Doaiguchi, 12 July 1972, S. Shimeki.
- fumipennis* Dognin, 1904 (*Atteria*); Ann. Soc. Entomol. Belgium 48: 133. Holotype ♂, Colombia, Micay, Août, 1869.
- fumosana* Powell, 1978 (*Rhyacionia*); in Powell and Miller, U.S. Dept. Agric., Agric. Handb. 514: 21. Holotype ♂, USA, Colorado, El Paso Co., Colorado Springs, Rock Creek Canyon, 2 May 1959, M. May.
- fumoviridana* Heinrich, 1923 (*Epinotia*); Bull. U.S. Natl. Mus. 123: 208. Holotype ♂, USA, California, Siskiyou Co., Shasta Retreat, "Aug. 16–23."
- fuscalbana* Zeller, 1876 (*Sericoris*); Verhandl. Zool.-Bot. Ges. Wein 25: 284. "Type" ♂, USA, [Maine or Massachusetts according to the original description], Packard. This is the only Zeller specimen of *fuscalbana* that we were able to locate. The original description does not indicate how many specimens were examined, but it does indicate that the series included only males.
- fuscana* Barnes & Busck, 1920 (*Peronea*); Contrib. Nat. Hist. Lepid. North Am. 4: 216. Holotype ♂, Canada, Manitoba, Aweme, 18 April 1905, Criddle.
- fuscodorsana* Kearfott, 1904 (*Commophila*); Canad. Entomol. 36: 141. Holotype ♂, Canada, British Colombia, Kaslo, 7 June 1903, J. Cockle. Klots (1942) correctly stated that the holotype is in the USNM, consistent with the original description.
- fuscomaculatus* Brown, 2000 (*Odonthalitus*); Proc. Entomol. Soc. Wash. 102: 42. Holotype ♀, Mexico, Michoacan, San Lorenzo, Rt. 15, km 206, 19 July 1966, O. Flint & A. Ortiz.
- galena* Clarke, 1971 (*Tritopterna*); Smithsonian Contrib. Zool. 56: 124. Holotype ♂, Rapa Island, Teumukopuke, 500', 7 October 1963, J. & T. Clarke.
- galerasiana* Razowski, 1988 (*Uncicida*); Acta Zool. Cracov. 31: 396. Holotype ♂, Colombia, Nariño, Volcán Galeras, 2,900 m, 13 January 1959, J. Clarke.
- gallaesaliciana* Riley, 1881 (*Grapholitha*); Trans. St. Louis Acad. Sci. 4: 320. "Type" ♀, USA, Missouri, St. Louis Co., St. Louis, "Lepidopterous gall on

- willow," 17 June 1873. This is one of two specimens cited by Riley in the original description; the location of the other is unknown.
- gambra* Razowski, 1988 (*Ernocornutina*); Acta Zool. Cracov. 31: 399. Holotype ♂, Argentina, Tucumán, Ciudad Universitaria, 800 m, 17 February 1959, J. Clarke.
- gampsognathos* Razowski, 1988 (*Gauruncus*); Acta Zool. Cracov. 31: 405. Holotype ♂, Bolivia, Cochabamba, Inca-chaca, tropical cloud area, 2,100 m, 27 August–5 September 1956, L. Peña.
- garai* Miller, 1987 (*Gretchena*); J. Lepid. Soc. 41: 151. Holotype ♀, Ecuador, 4 km S Loja, r.f. *Juglans neotropica*, 28 June 1986, A. Samaniego.
- gatesclarkei* Kawabe, 1992 (*Acleris*); Tinea 13: 171. Holotype ♂, Taiwan, Nantou Hsien, Tsuifeng, 2,400 m, 29 December 1989, A. Kawabe.
- gelastes* Razowski, 1988 (*Gauruncus*); Acta Zool. Cracov. 31: 404. Holotype ♂, Argentina, Tucumán, Ciudad Universitaria, 800 m, 17 February 1959, J. Clarke.
- gemellana* Heinrich, 1923 (*Eucosma circumculana*); Bull. U.S. Natl. Mus. 123: 96. Holotype ♂, USA, Florida, Hillsborough Co., St. Petersburg, May.
- gentilii* Brown, 1998 (*Argentulia*); J. Lepid. Soc. 52: 180. Holotype ♂, Argentina, Neuquén, Paso Cordoba, 1,300 m, 20 February 1980, M. Gentili.
- georgiella* Hulst, 1887 (*Myelois*); Entomol. Am. 3: 136. "Type" ♂, USA, Colorado. This is the only Hulst specimen we could find of *M. georgiella*; it is labeled "type." The original description does not indicate how many specimens were examined.
- gerda* Busck, 1911 (*Olethreutes*); Proc. U.S. Natl. Mus. 40: 227. Holotype ♀, French Guiana, St. Jean, Maroni, W. Schaus.
- giganteana* Riley, 1881 (*Paedisca*); Trans. St. Louis Acad. Sci. 4: 318. "Pseudotype" ♀, USA, Missouri, "Barlon." According to Riley's original description, this species was described from 2 females, one from "Kansas (G. F. Gau-mer)" and one from "Iowa, March, 1874 (Hoffmeister)." Although not included in the original series, the specimen from Missouri bears a type label in Riley's hand and represents a potential neotype if one is deemed necessary.
- gigantica* Busck, 1920 (*Hysterosia*); Insect. Inscit. Menst. 8: 87. Holotype ♀, Mexico, Distrito Federal, Mexico City, R. Muller.
- gilletteana* Dyar, 1903 (*Eucosma*); Proc. Entomol. Soc. Wash. 5: 229. Syntype ♂, USA, Arizona, Coconino Co., Williams, "16.6"; four syntypes (3 ♂♂, 1 ♀), USA, Colorado. According to Dyar, this species was described from the series (n = 5) cited above; all of the specimens bear red labels "Type No. 6737 U.S.N.M."
- gloriola* Heinrich, 1931 (*Eucosma*); Proc. Entomol. Soc. Wash. 33: 196. Holotype ♂, USA, Connecticut, Stamford, B.T.R. Lab colony, r.f. white pine tip, 6 May 1931.
- gnoma* Clarke, 1986 (*Dichelopa*); Smithsonian Contrib. Zool. 416: 138. Holotype ♂, Marquesas Islands, Fatu Hiva, Hanavave, 10', 12 April 1968, J. & T. Clarke.
- goodelliana* Fernald, 1882 (*Phoxopteris*); Trans. Am. Entomol. Soc. 10: 69. Lectotype ♂, USA Maine, New Hampshire, or Massachusetts [no locality data on specimen labels]. Designated by Miller (1970).
- graceana* Powell, 1960 (*Argyrotaenia*); Pan-Pac. Entomol. 36: 93. Holotype ♂, USA, California, San Bernardino Co., San Bernardino Mts., Hathaway Creek, 2 August 1940, C. Henne.
- grandicula* Heinrich, 1926 (*Laspeyresia*); Bull. U.S. Natl. Mus. 132: 54. Holotype ♂, USA, Virginia, Giles Co., Mountain Lake, 14–21 June 1907. A. Braun.
- grandiflavana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 50. Syntype ♀, USA, California, Lake Co.,

- 17–19 June 1871. This species was described from one male and two females; the other syntypes presumably are in the BMNH.
- grandis* Busck, 1907 (*Phalonia*); J. N. Y. Entomol. Soc. 15: 23. Holotype ♀, USA, Colorado, Jefferson Co., Golden, Chimney Gulch, Oslar, 1 July 1904.
- gratiana* Kawabe, 1974 (*Hedya*); Tyo to Ga 25: 101. Holotype ♂, Japan, Honmura, Kuchinoerabujima Island, 14 August 1973, r.f. *Glochidon obovatum*, A. Kawabe.
- gratuitana* Heinrich, 1923 (*Epiblema*); Bull. U.S. Natl. Mus. 123: 268. Holotype ♂, USA, Washington, East Sound, 11 July 1901.
- graziella* Blanchard, 1968 (*Eucosma*); J. Lepid. Soc. 22: 143. Holotype ♂, USA, Texas, Brewster Co., Big Bend National Park, Green Gulch, 11 October 1966, A. & M. Blanchard.
- grindeliana* Busck, 1906 (*Cydia*); Canad. Entomol. 38: 211. Two syntypes (1 ♂, 1 ♀), USA, Texas, Clarendon, r.f. *Grindelia squarrosa*, 28 September 1905, em: 4 October 1905, Hunter. In the original description, Busck identified the type as labeled "Type #9804"; however, both of the specimens listed above have identical red type labels with this number.
- griselda* Blanchard & Knudson, 1981 (*Eucosma*); J. Lepid. Soc. 35: 173. Holotype ♂, USA, Texas, Brewster Co., Big Bend National Park, Chisos Basin, 7 April 1967, A. & M. Blanchard.
- groteana* Fernald, 1882 (*Cenopsis*); Trans. Am. Entomol. Soc. 10: 69. Holotype ♀, USA, Ohio. This species was described from a single specimen.
- guerrerana* Obraztsov, 1964 (*Anopina*); Am. Mus. Novit. 2082: 15. Holotype ♂, Mexico, Guerrero, Sierra de las Aguas Escondidas, 9,500', July, H. Smith.
- guiana* Busck, 1913 (*Olethreutes*); Insect. Inscit. Menst. 1: 92. Holotype ♂, British Guiana [Guyana], Georgetown, "larvae feed on a common weed in the cane field."
- gunniana* Busck, 1907 (*Phalonia*); J. N. Y. Entomol. Soc. 15: 26. Holotype ♀, USA, Maryland, Montgomery Co., Plimmers Island, September 1903, A. Busck.
- guttulana* Blanchard, 1979 (*Eucosma*); J. Lepid. Soc. 33: 214. Holotype ♂, USA, Texas, Kennedy Co., Padre Island National Seashore, 19 July 1976, A. & M. Blanchard.
- gyraleus* Diakonoff, 1982 (*Archips*); Zool. Verhandl. (Leiden) 193: 87. Holotype ♂, Sri Lanka, Ratnapura District, Ugalkaltota, 350', Irrigation Bungalow, 31 January–8 February 1970, Davis & Rowe.
- habrosana* Heinrich, 1923 (*Exentera*); Bull. U.S. Natl. Mus. 123: 178. Holotype ♂, USA, California, San Diego Co., San Diego, 17 March 1912, W. Wright.
- hadroteus* Clarke, 1986 (*Dichelopa*); Smithsonian Contrib. Zool. 416: 126. Holotype ♂, Marquesas Islands, Nuku Hiva, Tunoa Ridge, 2,900', 23 January 1968, J. & T. Clarke.
- hasseanthi* Clarke, 1952 (*Eucosma*); Bull. South. Calif. Acad. Sci. 52: 60. Holotype ♂, USA, California, Orange Co., "bred from *Hasseanthus variegatus*," 23 August 1936, T. Hower.
- heindelana* Fernald, 1905 (*Acleris*); Am. Nat. 39: 870. Lectotype ♀, Canada, Manitoba, Winnipeg, A. W. Hanham. Designated by Obraztsov (1963).
- heliocausta* Dognin, 1912 (*Atteria*); Heterocerces Nouveaux de L'Amerique du Sud 6: 51. Holotype ♂, Colombia, Cali, San Antonio, 2,000 m, 22 September 1908, Fassel.
- helianthana* Riley, 1881 (*Grapholitha*); Trans. St. Louis Acad. Sci. 4: 319. "Type" ♂, USA, Texas, "gall on sunflower," 12 August 1873. Riley described this species from two specimens, only one of which has been located by us.

- hemeropsis* Dognin, 1912 (*Olethreutes*); *Heteroceres* Nov. L'Amerique du Sud 6: 49. Holotype ♂, Colombia, Cali, San Antonio, Fassel.
- hemitephras* Clarke, 1976 (*Lasiothyris*); Proc. U.S. Natl. Mus. 125: 51. Holotype ♀, Mexico, Puebla, Tehuacan, 10 October.
- henicodes* Razowski, 1988 (*Bicavernaria*); Acta Zool. Cracov. 31: 400. Holotype ♂, Peru, Cusco, Machu Picchu, 2,385 m, 6 February 1959, J. Clarke.
- hennei* Clarke, 1947 (*Eucosma*); Bull. South. Calif. Acad. Sci. 46: 51. Holotype ♂, USA, California, Los Angeles Co., El Segundo sand dunes, em: 3 October 1940, C. Henne.
- heos* Razowski, 1988 (*Helicteulia*); Acta Zool. Cracov. 31: 388. Holotype ♂, Bolivia, Cochabamba, Incachaca, tropical cloud area, 2,100 m, 27 August–5 September 1956, L. Peña.
- herbacea* Clarke, 1955 (*Orthocomotis*); Trans. Royal Entomol. Soc. London 107: 151. Holotype ♂, Costa Rica, San Pedro de Montes de Oca, r.f. avocado, em: 15 January 1933, C. Ballou.
- herbaria* Busck, 1920 (*Sociphora*); Insect. Inscit. Menst. 8: 85. Holotype ♂, Guatemala, Cuyuga, W. Schaus.
- heterophaea* Clarke, 1968 (*Phalonidia*); Proc. U.S. Natl. Mus. 125: 36. Holotype ♂, Colombia, Antioquia, La Estrella, 1,730 m, 13 December 1959, F. Luis Gallego M.
- heucherana* Heinrich, 1923 (*Epinotia*); Bull. U.S. Natl. Mus. 123: 217. Holotype ♂, USA, Virginia, Arlington Co., Rosslyn, larvae mining leaves of "alum root" [*Heuchera americana*], C. Heinrich.
- hieroglyphana* Blanchard & Knudson, 1984 (*Grapholita*); Proc. Entomol. Soc. Wash. 86: 448. Holotype ♂, USA, Texas, Culberson Co., Guadalupe Mountains, Nickel Creek, 10 July 1968, A. & M. Blanchard.
- hieroglypta* Walsingham, 1914 (*Olethreutes*); Biol. Centr.-Am. Lepid., Heter. 4: 250. Holotype ♂, Mexico, Veracruz, Orizaba, W. Schaus. Walsingham clearly designated a "Type" male deposited in the USNM.
- hipeana* Grote, 1876 (*Conchylis*); Canad. Entomol. 8: 207. Holotype ♂, Canada, Ontario, Port Stanley, W. Saunders. Although the specimen bears a label "London, Ont.," according to the original description it was taken at Port Stanley, by "W. Saunders from London, Ontario." This species was described from a single male.
- hiranoi* Kawabe, 1980 (*Gypsonoma*); Tinea 11: 27. Holotype ♂, Japan, Nagano Pref., Nakakaruizawa, 14 June 1964, A. Kawabe.
- hiroshii* Kawabe, 1980 (*Zeiraphera*); Tinea 11: 26. Holotype ♂, Japan, Gunma Pref., Kumaneta'ra, 14 July 1952, M. Hoshino.
- hirsutana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 50. Syn-type ♂, USA, California, Sonoma Co., 23 May 1871. This species was described from four males; the other three presumably are in the BMNH.
- hodgei* Heppner, 1989 (*Argyrotaenia*); Florida Entomol. 72: 102. Holotype ♂, USA, Florida, Glade Co., Fisheating Creek, 7–10 May 1964, R. Hodges.
- hodgei* Razowski, 1993 (*Apotoforma*); Acta Zool. Cracov. 36: 186. Holotype ♀, Panama, Cerro Campana, 11–14 July 1967, O. S. Flint.
- hodsoni* Miller, 1986 (*Pseudexentera*); J. Lepid. Soc. 40: 223. Holotype ♂, USA, Pennsylvania, Allegheny Co., Oak Station, 10 April 1910, F. Marloff.
- hoffmanana* Brown, 1991 (*Cuproxena*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 60. Holotype ♀, Brazil, Santa Catarina, Neu-Bremen, 12 June 1931, F. Hoffman.
- hohuanshana* Kawabe, 1986 (*Zeiraphera*); Entomol. Pap. Pres. Kurosawa, Tokyo: 79. Holotype ♂, Taiwan, Hualien Hsien, Hohuanshan, 3,100 m, 30 July–1 August 1983, A. Kwabe.

- hohuanshana* Kawabe, 1989 (*Acleris*); Tinea 12: 194. Holotype ♂, Taiwan, Hualien Hsien, Hohuanshan, 3,100 m, 30 July–1 August 1983, A. Kawabe.
- hohuanshanensis* Kawabe, 1985 (*Clepsis*); Tinea 12: 5. Holotype ♂, Taiwan, Hualien Hsien, Hohuanshan, 3,100 m, 30 July–1 August 1983, A. Kawabe.
- holographa* Clarke, 1965 (*Nesochoris*); Proc. U.S. Natl. Mus. 117: 74. Holotype ♂, Chile, Masatierra, Plazoleta del Yunque, 200 m, 9 February 1952, P. Kuschel.
- homolopa* Diakonoff, 1968 (*Eudemis*); Bull. U.S. Natl. Mus. 257: 54. Holotype ♀, Philippine Islands, Davao Province, Minandao, 5717.
- horii* Kawabe, 1987 (*Cryptophlebia*); Tinea 12: 141. Holotype ♂, Japan, Okinawa Island, Okubi, Kin, r.f. *Bruguiera gym-norrhiza*, 8 May 1983, S. Hori.
- hoshinoi* Kawabe, 1964 (*Hastula*); Tyo to Ga 15: 2. Holotype ♂, Japan, Honshu, Tokyo, Setagaya, 16 June 1963, A. Kawabe.
- hostilis* Diakonoff, 1956 (*Bactra*); Zool. Verhand. (Leiden) 29: 57. Holotype ♂, Japan, Honshiu, Funakoshi, Yokosuka, 11 September 1953.
- houserii* Miller, 1959 (*Petrova*); Ohio J. Sci. 59: 230. Holotype ♂, USA, Ohio, Washington Co., Veto, r.f., *Pinus echinata*, 18 June 1954, W. Miller.
- huachucensis* Obratzsov, 1961 (*Argyrotaenia montezumae*); Am. Mus. Novit. 2048: 7. Holotype ♂, USA, Arizona, Cochise Co., Huachuca Mtns., August 1905, H. Skinner.
- hubbardana* Busck, 1907 (*Phalonia*); J. N. Y. Entomol. Soc. 15: 27. Holotype ♀, USA, Arizona, Pima Co., Tucson, r.f. *Koeberlinia spinosa*, em: 12 May 1897, H. Hubbard.
- hypericana* Ely, 1910 (*Peronea*); Proc. Entomol. Soc. Wash. 12: 68. Holotype ♀, USA, Virginia, Fairfax Co., Great Falls, r.f., *Hypericum prolificum*, em: 17 June 1909, C. Ely.
- icelitodes* Diakonoff, 1982 (*Eucosma*); Zool. Verhand. (Leiden) 193: 45. Holotype ♂, Sri Lanka, Mannar District, Olaitthoduvai, 10 mi NW of Mannar, 0–50', 4–5 November 1976, G. Hevel, R. Dietz, S. Karunaratne & D. Balasooriya.
- icogramma* Clarke, 1968 (*Irazona*); Proc. U.S. Natl. Mus. 125: 38. Holotype ♀, Guatemala, Volcán Santa María, October, Schaus and Barnes.
- illotana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 48. Two syntypes (1 ♂, 1 ♀), Oregon, Rogue River, May 1872. Walsingham described this species from two males and one female; the other male syntype is presumed to be in the BMNH.
- imbrica* Kawabe, 1978 (*Hedya*); Tinea 10: 181. Holotype ♂, Japan, Yakushima Island, Shiratani, 14 September 1972, T. Watanabe.
- imbridana* Fernald, 1905 (*Cydia*); Canad. Entomol. 37: 400. Lectotype ♂, USA, Kansas, Pottawatomie Co., Onaga, F. Crevecoeur. Designated by Miller (1970).
- imitativa* Heinrich, 1926 (*Grapholitha*); Bull. U.S. Natl. Mus. 132: 34. Holotype ♂, USA, California, San Francisco.
- implicata* Heinrich, 1924 (*Proteoteras*); J. Wash. Acad. Sci. 14: 390. Holotype ♂, USA, Florida, Dade Co., Everglades, ex-larva, "April 16–23."
- implicata* Heinrich, 1931 (*Thiodia*); Proc. U.S. Natl. Mus. 79: 7. Holotype ♂, USA, Washington, Rochester, 13 June 1929, W. Baker.
- improvisana* Heinrich, 1923 (*Epinotia*); Bull. U.S. Natl. Mus. 123: 269. Holotype ♂, USA, California, Tulare Co., Mineral King, "June 16–23."
- incognita* Obratzsov, 1963 (*Acleris*); Proc. U.S. Natl. Mus. 114: 254. Holotype ♀, USA, Idaho, Moscow Mountains, 7 August 1933, J. Clarke.
- inconspicua* Obratzsov, 1964 (*Proeulia*); Proc. U.S. Natl. Mus. 116: 190. Holotype ♂, Chile, Santiago, La Obra, October 1952, L. Peña.

- indagatricana* Heinrich, 1923 (*Thiodia*); Bull. U.S. Natl. Mus. 123: 56. Holotype ♂, USA, Utah, Utah Co., Provo, 26 August 1908, T. Spalding.
- indentanus* Dyar, 1903 (*Phthiniolophus*); Proc. Entomol. Soc. Wash. 5: 306. Twenty-nine syntypes from various localities in the eastern United States. A female from USA, Virginia, Fortress Munroe, 24 June 1884, H. Dyar, was placed in the type collection, presumably by J. Clarke; the rest of the syntypes are in the main collection. According to the original description, this species was described from 17 males and 21 females.
- indigena* Yasuda, 1978 (*Eurydoxa*); Trans. Lepid. Soc. Jap. 29: 119. Holotype ♂, Taiwan, Rengwati, 29 March 1929, S. Issiki.
- infelix* Heinrich, 1923 (*Epiblema*); Bull. U.S. Natl. Mus. 123: 151. Holotype ♂, USA, North Carolina, Polk Co., Tryon, 25 May 1904, Fiske.
- infernalis* Heinrich, 1920 (*Commophila*); Proc. U.S. Natl. Mus. 57: 61. Holotype ♂, USA, New Mexico, Manzano Natl. Forest, Hell Canyon, r.f. berries of *Juniperus*, 31 June 1917, C. Heinrich.
- infida* Heinrich, 1926 (*Aphania*); Bull. U.S. Natl. Mus. 132: 121. Holotype ♂, Canada, Quebec, St. Johns Co., St. Therese Island, 9 June 1915, W. Chagnon.
- infimbriana* Dyar, 1904 (*Thiodia*); Proc. U.S. Natl. Mus. 27: 927. Holotype ♀, Canada, British Columbia, Kaslo, H. Dyar.
- influana* Heinrich, 1923 (*Thiodia*); Bull. U.S. Natl. Mus. 123: 49. Holotype ♂, USA, California, Siskiyou Co., Shasta Retreat, "July 1-7."
- infusca* Heinrich, 1923 (*Endothenia*); Proc. Entomol. Soc. Wash. 25: 109. Holotype ♂, USA, Maryland, Forest Glen, 10 July 1914, O. Heidemann.
- ingens* Heinrich, 1926 (*Laspeyresia*); Bull. U.S. Natl. Mus. 132: 63. Holotype ♀, USA, Florida, Hillsborough Co., St. Petersburg.
- ingrata* Heinrich, 1926 (*Laspeyresia*); Bull. U.S. Natl. Mus. 132: 50. Holotype ♂, Canada, Manitoba, Aweme, 25 May 1905, Criddle.
- injectiva* Heinrich, 1926 (*Hedulia*); Bull. U.S. Natl. Mus. 132: 65. Holotype ♂, USA, Nevada, Reno, r.f. cones of *Pinus*, em: 24 January 1911, J. Smith.
- inopinata* Heinrich, 1928 (*Laspeyresia*); Proc. Entomol. Soc. Wash. 30: 91. Holotype ♂, China, South Manchuria, Kinshu, on apple, 4 August 1927, T. Kondo.
- inopiosa* Heinrich, 1926 (*Laspeyresia*); Bull. U.S. Natl. Mus. 132: 46. Holotype ♀, USA, Idaho, Kootenai Co., Coeur d'Alene, r.f. *Pinus contorta*, em: 11 May 1916, J. Evendon.
- inouei* Kawabe, 1968 (*Pandemis*); Tinea 7: 121. Holotype ♂, Taiwan, Chiayi County, Alishan, 2,200 m, 9-11 July 1964, H. Inoue.
- inouei* Kawabe, 1972 (*Eupoecilia*); Tinea 9: 250. Holotype ♂, Japan, Kagosakotoge, base of Mt. Fuji, 13 August 1969, H. Inoue.
- inouei* Kawabe, 1987 (*Metendothenia*); Tinea 12: 139. Holotype ♂, Japan, Mie Pref., Hokusei-machi, Otsujishinden, 8 May 1986, T. Mano.
- insidiosana* Heinrich, 1923 (*Epiblema*); Bull. U.S. Natl. Mus. 123: 145. Holotype ♂, USA, North Carolina, Southern Pines, "June 1-7."
- insignata* Heinrich, 1924 (*Thiodia*); J. Wash. Acad. Sci. 14: 386. Holotype ♂, USA, Colorado, San Juan Co., Silverton, "July 8-15" [genitalia slide only; pinned specimen has not been found].
- insignis* Heinrich, 1928 (*Petrova*); Proc. Entomol. Soc. Wash. 30: 63. Holotype ♂, Japan, Yokohama, r.f. *Pinus thunbergii*, em: 27 August 1924.
- inspersa* Heinrich, 1931 (*Phaecasiophora*); Proc. U.S. Natl. Mus. 79: 13. Holotype ♂, USA, Florida, Hillsborough Co., St. Petersburg, 3 March 1915, R. Ludwig.
- insulanus* Kawabe, 1965 (*Archippus*); Tyo to Ga 16: 23. Holotype ♂, Japan, Oki-

- noerabu-jima Is., 8 April 1957, M. Umabayashi.
- interruptolineana* Fernald, 1882 (*Penthina*); Trans. Am. Entomol. Soc. 10: 70. Lectotype ♂, USA, New Hampshire or Massachusetts [no locality data on specimen labels]. Designated by Miller (1970).
- invidana* Barnes & Busck, 1920 (*Tortrix*); Contrib. Nat. Hist. Lepid. North Am. 4: 215. Holotype ♂, Canada, British Columbia, Vancouver Island, Duncans, Hanham.
- iodes* Clarke, 1968 (*Hysterosia*); Proc. U.S. Natl. Mus. 125: 4. Holotype ♂, Guatemala, Volcán Santa María, Schaus & Barnes.
- iresinephora* Razowski, 1988 (*Eriotortrix*); Acta Zool. Cracov. 31: 403. Holotype ♂, Colombia, Bogotá, Chico, 23 January 1959, J. Clarke.
- iridana* Barnes & Busck, 1920 (*Platynota*); Contrib. Nat. Hist. Lepid. North Am. 4: 212. Holotype ♀, USA, Florida, Hillsborough Co., St. Petersburg, June.
- irroratana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 48. Syntype ♂, USA, California, Mendocino Co., 7–10 June 1871. Walsingham described this species from five males; all but the USNM syntype are presumed to be in the BMNH.
- isipida* Razowski, 1988 (*Eriotortrix*); Acta Zool. Cracov. 31: 403. Holotype ♂, Colombia, Bogotá, Chico, 23 January 1959, J. Clarke.
- issikii* Kawabe, 1980 (*Aterpia*); Tinea 11: 17. Holotype ♂, Japan Honmura, Kuchinoarabu Island, 27–31 July 1973, A. Kawabe.
- issikii* Razowski, 1977 (*Hysterosia*); Tyo to Ga 28: 35. Holotype ♀, Japan, Kuwayama, 23 June 1916.
- ivana* Fernald, 1901 (*Tortrix*); J. N. Y. Entomol. Soc. 9: 51. Holotype ♂, USA, Florida, r.f. *Iva imbricata*, 10 March 1900. This species was described from a single male.
- japonensis* Kawabe, 1980 (*Cydia*); Tinea 11: 28. Holotype ♂, Japan, Akita Pref., Onuma Spa, Hachimantai, 9–10 August 1974, R. Sato.
- japonica* Kawabe, 1978 (*Eucoenogenes*); Tinea 10: 185. Holotype ♂, Japan, Honshu, Gunma Pref., Mt. Mikaboyama, 2 August 1968, S. Shimeki.
- jenningsi* Powell, 1978 (*Rhyacionia*); in Powell and Miller, U.S. Dept. Agric., Agric. Handb. 514: 17. Holotype ♂, USA, Arizona, Sitgreaves National Forest, r.f. *Pinus ponderosa*, D. Jennings.
- jinboi* Kawabe, 1965 (*Clepsis*); Kontyu 34: 459. Holotype ♂, Japan, Honshu, South Alps, Sanpuku-goya, 1 August 1964, K. Jinbo ["Jimbo" on label].
- jinboi* Kawabe, 1976 (*Cymolomia*); Tinea 10: 44. Holotype ♂, Japan, Hokkaido, Mt. Daisetsu (Kurodake), 16 August 1969, K. Jinbo.
- jordani* Clarke, 1955 (*Orthocomotis*); Trans. Royal Entomol. Soc. London 107: 142. Holotype ♂, Brazil, New Bremen, 11 August 1936, F. Hoffman.
- juglandana* Fernald, 1879 (*Tortrix*); Canad. Entomol. 11: 155. Two syntypes (1 ♂, 1 ♀), USA, Massachusetts/Ohio/Wisconsin, and Canada (Ontario) [no locality data on specimen labels]. Fernald described this species from 11 males and 15 females; he did not designate a type specimen or a type locality, instead listing the states from which he had specimens.
- juncticiliana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 75. Two syntypes (2 ♂♂), USA, California, Shasta Co., 16 July 1871. This species was described from seven males; the other five presumably are in the BMNH.
- kana* Busck, 1906 (*Hemimene*); Proc. Biol. Soc. Wash. 19: 182. Lectotype ♂, Canada, British Columbia, Kaslo, H. Dyar. Designated by Miller (1983).
- khasiensis* Miller, 1977 (*Petrova*); J. Lepid. Soc. 31: 135. Holotype ♂, India, Assam

- (Meghalaya), Upper Shillong, March 1963.
- kincaidiana* Fernald, 1900 (*Phoxopteris*); in Dyar, Proc. Wash. Acad. Sci. 2: 500. Holotype ♂, USA, Alaska, Metlakatla, "6.4.99," Harriman Expedition '99, T. Kincaid.
- kirishimensis* Kawabe, 1974 (*Eudemopsis*); Kontyu 42: 390. Holotype ♂, Japan, Kagoshima Pref., Mt. Kirishima [Karisima], 30 June 1958, A. Kawabe.
- kiyosatoensis* Kawabe, 1980 (*Endothenia*); Tinea 11: 20. Holotype ♂, Japan, Yamamshi Pref., Kiyosato, 1,300 m, 25–28 August 1971, A. Kawabe.
- knudsoni* Miller, 1986 (*Pseudexentera*); J. Lepid. Soc. 40: 224. Holotype ♂, USA, Texas, Kleberg Co., Riviera Beach site, 24 February 1984, E. Knudson.
- koebelei* Obraztsov, 1959 (*Aphelia*); Am. Mus. Novit. 1964: 7. Holotype ♂, USA, Washington, Easton, Koebele.
- komonana* Kearfott, 1907 (*Hysterosia*); Canad. Entomol. 37: 121. Lectotype ♂, USA, California, Santa Clara Co. Designated by Klots (1942).
- kurosawai* Kawabe, 1986 (*Notocelia*); Entomol. Pap. Pres. Kurosawa, Tokyo: 80. Holotype ♂, Taiwan, Hualien Hsien, Hohuanshan, 3,100 m, 30 July–1 August 1983, A. Kawabe.
- kusaiensis* Clarke, 1976 (*Dudua aprobola*); Insects of Micronesia 9: 86. Holotype ♂, Micronesia, Kusaie, Mutunlik, 14 February 1953, J. Clarke.
- kuscheli* Clarke, 1980 (*Proeulia*); J. Lepid. Soc. 34: 184. Holotype ♂, Chile, Desventuradas Islands, San Ambrosia Island, 450 m, on flowers of *Thamnoseric lacerata*, 14 November 1960, G. Kuschel.
- kusunokii* Kawabe, 1993 (*Apotomis*); Tyo to Ga 43: 257. Holotype ♂, Japan, Keunshita, Mt. Daisetsu, 28 July 1983.
- laciniana* Zeller, 1875 (*Phoxopteris*); Verhandl. Zool.-Bot. Ges. Wein 25: 253. "Type" ♂, USA, Massachusetts, 1871. Of the three males and one female referred to in the original description, this is the only specimen we have been able to locate.
- laetitia* Clarke, 1968 (*Cochylis*); Proc. U.S. Natl. Mus. 125: 25. Holotype ♂, Argentina, Tucumán, Ciudad Universitaria, 800 m, 20 February 1959, J. Clarke.
- lagopana* Walsingham, 1879 (*Steganoptycha*); Ill. Lepid. Heter. Brit. Mus. 4: 71. Syntype ♀, USA, California, Colusa Co., 28 June 1871. This species was described from two males and three females; presumably all but the above mentioned syntype are in BMNH.
- lamberti* Franclemont, 1986 (*Sparganothis*); Proc. Entomol. Soc. Wash. 88: 56. Holotype ♂, USA, South Carolina, Oconee Co., Cherry Hill Recreation Area, Route 107, 2,000', 22 August 1958, J. Franclemont.
- lambertiana* Busck, 1915 (*Tortrix*); Proc. Entomol. Soc. Wash. 17: 86. Holotype ♂, USA, Oregon, Jackson Co., Ashland, r.f. *Pinus lambertii*, em: 27 June 1914, P. Sergeant. Although the original description gives "Oakland, Oreg." as the type locality, the label on the specimen indicates Ashland.
- lantana* Busck, 1910 (*Crociosema*); Proc. Entomol. Soc. Wash. 12: 132. Holotype ♂, Hawaii, Oahu, Tantalus, O. Swezey.
- larana* Brown, 2000 (*Lobogenesis*); Proc. Entomol. Soc. Wash. 102: 29. Holotype ♂, Venezuela, Lara, Yacumba National Park, 13 mk SE Sanare, 4,800', cloud forest, blacklight, 4–7 March 1978, J. Heppner.
- largo* Heppner, 1981 (*Cydia*); J. Lepid. Soc. 35: 278. Holotype ♂, USA, Florida, Monroe Co., Key Largo, 15 mi NE Key Largo City, 16 June 1974, J. Heppner.
- laricana* Busck, 1916 (*Laspeyresia*); Proc. Entomol. Soc. Wash. 18: 152. Holotype ♀, USA, Montana, Evaro, r.f., *Larix occidentalis*, May 1914, J. Brunner.
- lariciana* Kawabe, 1980 (*Zeiraphera*); Tinea 11: 24. Holotype ♂, Japan, Nagano Pref., Shig-kôgen, 28 June 1964, Oza-wa.

- latens* Heinrich, 1929 (*Thiodia*); Proc. U.S. Natl. Mus. 75: 2. Holotype ♂, USA, California, Tulare Co., Monachee Meadows, 8,000', "July 8-14."
- lathamii* Forbes, 1937 (*Eucosma*); J. N. Y. Entomol. Soc. 43: 131. Holotype ♂, USA, New York, Long Island, Orient, 18 June 1935, R. Latham.
- latiana* Brown, 1991 (*Cuproxena*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 52. Holotype ♂, Venezuela, Aragua, Rancho Grande, 1,100 m, 10 May 1967, L. Rodriguez & C. Andara.
- laticurva* Heinrich, 1929 (*Eucosma*); Proc. U.S. Natl. Mus. 75: 4. Holotype ♂, USA, California, Sierra Nevada.
- latipunctana* Walsingham, 1879 (*Cochylis*); Ill. Lepid. Heter. Brit. Mus. 4: 29. Syn-type ♂, USA, California, Mendocino Co., 31 May 1871. This species was described from two males; the other syn-type presumably is in the BMNH.
- lautana* Powell, 1960 (*Argyrotaenia*); Pan-Pac. Entomol. 36: 90. Holotype ♂, USA, California, San Bernardino Co., San Bernardino Mtns., Camp Baldy, "June 24-30."
- lavana* Busck, 1907 (*Phalonia*); J. N. Y. Entomol. Soc. 15: 27. Holotype ♂, USA, Maryland, Montgomery Co., Hyattsville, A. Busck.
- leguminana* Busck, 1907 (*Phalonia*); J. N. Y. Entomol. Soc. 15: 28. Holotype ♂, USA, Washington, D.C., r.f. *Gleditchia horrida*, Feburary.
- leguminis* Heinrich, 1943 (*Laspeyresia*); Proc. Entomol. Soc. Wash. 45: 71. Holotype ♂, Peru, r.f. beans, 19 August 1930, Willie.
- leopardana* Busck, 1906 (*Hemimene*); Proc. Biol. Soc. Wash. 19: 181. Holotype ♀, USA, Maryland, Montgomery Co., Hyattsville, June 1906, A. Busck.
- lepida* Heinrich, 1924 (*Epinotia cruciana*); J. Wash. Acad. Sci. 14: 391. Holotype ♂, USA, New Hampshire, Coos Co., Mt. Washington, 4,000', "July 24-31."
- leucobasis* Busck, 1916 (*Laspeyresia*); Proc. Entomol. Soc. Wash. 18: 152. Holotype ♂, USA, Montana, Evaro, r.f. *Larix occidentalis*, May 1914, J. Brunner.
- leucognoma* Clarke, 1976 (*Eumarissa*); Insects of Micronesia 9: 32. Holotype ♂, Micronesia, Guam, Mt. Alifan, ex-umbellifer(?), 21 May 1936, O. Swezey.
- leucothorax* Clarke, 1955 (*Orthocomotis*); Trans. Royal Entomol. Soc. London 107: 150. Holotype ♂, Brazil, New Bremen, 6 June 1936, F. Hoffman.
- lindana* Fernald, 1892 (*Steganoptycha*); Canad. Entomol. 24: 178. Lectotype ♂, Canada, Ontario, Hamilton. Designated by Miller (1970).
- lindseyana* Obraztsov, 1962 (*Choristoneura lambertiana*); Am. Mus. Novit. 2101: 16. Holotype ♂, USA, California, Modoc Co., Warner Mtns., 3 mi E Davis Creek, 15-23 July 1922, 5,500', A. Lindsey.
- lineana* Fernald, 1901 (*Eucosma*); J. N. Y. Entomol. Soc. 9: 50. Holotype ♀, USA, Florida, Palm Beach Co., Palm Beach, r.f. *Anona laurifolia*, H. Dyar. This species was described from a single female.
- linitipunctana* Blanchard & Knudson, 1983 (*Phaneta*); J. Lepid. Soc. 37: 140. Holotype ♂, USA, Texas, Nueces Co., North Padre Island, 9 September 1974, A. & M. Blanchard.
- listerana* Kearfott, 1907 (*Pharmacia*); Trans. Am. Entomol. Soc. 33: 80. Lectotype ♂ (designated here), USA, Pennsylvania, Lackawanna Co., Nicholson, 6 July 1904, A. Lister. Selected by Obraztsov in 1953.
- lobata* Razowski, 1988 (*Argyrotaenia*); Acta Zool. Cracov. 31: 408. Holotype ♂, Bolivia, Cochabamba, Incachaca, tropical cloud area, 2,100 m, 27 August-5 September 1956, L. Peña.
- loricana* Grote, 1880 (*Phoxopteris*); Canad. Entomol. 12: 218. "Type" ♂, USA, Ohio, Montgomery Co., Dayton, G. Pilate. According to the original description, the "type is in the collection of Fernald," which almost certainly refers to the specimen cited above.

- louisiana* Busck, 1907 (*Phalonia*); J. N. Y. Entomol. Soc. 15: 24. Holotype ♂, USA, Missouri, St. Louis Co., 2 mi W St. Louis, August 1904, A. Busck.
- luciferana* Kawabe, 1980 (*Zeiraphera*); Tinea 11: 26. Holotype ♂, Japan, Miyagi Pref., Sakunmi, 22 June 1969, T. Watanabe.
- luctuosana* Blanchard, 1979 (*Epiblema*); J. Lepid. Soc. 33: 184. Holotype ♂, USA, Texas, Nueces Co., N. Padre Island, 6 April 1978, A. & M. Blanchard.
- luculentana* Heinrich, 1920 (*Evetria*); Proc. U.S. Natl. Mus. 57: 56. Holotype ♂, USA, Colorado, El Paso Co., r.f. *Pinus scopulorum*, 5 May 1916, W. Edmonston.
- luoyingensis* Kawabe, 1992 (*Acleris*); Tinea 13: 175. Holotype ♂, Taiwan, Hualien Hsien, Houhuanshan, Luoying Lodge, 2,800 m, 31 December 1988, A. Kawabe.
- lupicinia* Clarke, 1971 (*Dichelopa*); Smithsonian Contrib. Zool. 56: 113. Holotype ♂, Rapa Island, Pt. Maraia, r.f. *Rumex crispus*, em: 26 October 1963, J. & T. Clarke.
- macdunnoughi* Obraztsov, 1963 (*Acleris*); Proc. U.S. Natl. Mus. 114: 214. Holotype ♀, USA, Massachusetts, Worcester Co., Winchendon, 29 September 1902.
- machimiana* Barnes & Busck, 1920 (*Sparganothis*); Contrib. Nat. Hist. Lepid. North Am. 4: 211. Holotype ♀, USA, Arizona, Cochise Co., Paradise, July.
- macswaini* Powell, 1980 (*Decodes*); Pacific Insects 22: 89. Holotype ♂, Mexico, Nuevo Leon, 3 mi E Galeana, 5,000', 7–9 August 1963, W. Duckworth & D. Davis.
- maculana* Fernald, 1901 (*Lipoptycha*); J. N. Y. Entomol. Soc. 9: 51. Holotype ♂, USA, Florida, Palm Beach Co., Palm Beach, r.f. *Schoepfia arborescens*, em: 24 February 1900, H. Dyar. There are three specimens in the USNM collection with virtually identical collecting data, two of which bear labels in Fernald's hand indicating "type"; the latter two are undoubtedly the two males that comprise the original series. Although Miller (1970) was unable to find the holotype, one of the males bears a red USNM type label ("Type 5413") consistent with the original description, implicating it as the holotype.
- maculatana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 48. Two syntypes (2 ♀♀), USA, California, Lake Co., 17–19 June 1871. This species was described from three males and three females; the other syntypes presumably are in the BMNH.
- maenamii* Kawabe, 1974 (*Olethreutes*); Tyo to Ga 25: 102. Holotype ♂, Japan, Izu Island, Shikinejima, 16 June 1966, T. Maenami.
- magnifica* Razowski & Becker, 1999 (*Auratonota*); Revta. Bras. Zool. 16: 1174. Holotype ♂, Venezuela, Aragua, Rancho Grande, 1,100 m, at light in montane tropical forest, 16 June 1973, J. C. & K. G. Schaffer.
- magnoliana* Fernald, 1892 (*Cacoecia*); Canad. Entomol. 24: 121. "Type" ♂, USA, New York, Tompkins Co., Ithaca, C.U. Exp. No. 292, r.f. *Magnolia acuminata*, 22 June 1891, M. Slingerland. Fernald did not indicate how many specimens he examined.
- maiana* Kearfott, 1907 (*Phalonia*); Trans. Am. Entomol. Soc. 33: 82. Lectotype ♂, USA, New Jersey, Essex Co., Essex County Park, 9–14 May 1910, W. Kearfott. Designated by Klots (1942).
- maiorina* Heinrich, 1923 (*Bactra*); Proc. Entomol. Soc. Wash. 25: 105. Holotype ♂, USA, Virginia, Arlington Co., Arlington, r.f. *Scirpus fluviatilis*, 1 July 1920.
- malana* Fernald, 1882 (*Eccopsis*); Trans. Am. Entomol. Soc. 10: 72. Lectotype ♂, USA, New York, Kings Co., Brooklyn, J. Smith. Designated by Miller (1970).
- manilkara* Heppner, 1981 (*Dichrorampha*); Florida Entomol. 64: 274. Holotype ♂,

- USA, Florida, Monroe Co., Middle Torch Key, 12 June 1974, r.f. *Manilkara emarginata*, em: 6 July 1974, J. Heppner.
- manoi* Kawabe, 1987 (*Hedya*); *Tinea* 12: 140. Holotype ♂, Japan, Mie Pref., Hokushei-machi, Otsujishenden, 8 May 1986, T. Mano.
- mareda* Clarke, 1955 (*Orthocomotis*); *Trans. Royal Entomol. Soc. London* 107: 142. Holotype ♂, Brazil, Nova Teutonia, May 1938, F. Plaumann.
- mariana* Fernald, 1882 (*Lophoderus*); *Trans. Am. Entomol. Soc.* 10: 67. Lectotype ♂ (designated here), USA, Maine, Penobscot Co., Orono. Selected by Obraztsov 1956. According to the original description, Fernald had four males from Maine (Orono), Massachusetts, and New York.
- maritima* Dyar, 1904 (*Ancylis*); *Proc. Entomol. Soc. Wash.* 6: 221. Eight syntypes, USA, Rhode Island, Washington Co., Weekapaug, r.f. *Lathyrus maritima*, H. Dyar. One of the syntypes was placed in the type collection, presumably by J. Clarke; the remainder are in the main collection.
- marloffiana* Busck, 1907 (*Phalonia*); *J. N. Y. Entomol. Soc.* 15: 26. Holotype ♀, USA, Pennsylvania, Allegheny Co., Oak Station, 7 June 1906, F. Marloff.
- marmoreana* Heinrich, 1923 (*Epinotia*); *Bull. U.S. Natl. Mus.* 123: 222. Holotype ♂, USA, Utah, Tooele Co., Stockton, 16 July 1913, T. Spalding.
- marquesana* Clarke, 1986 (*Duessia*); *Smithsonian Contrib. Zool.* 416: 155. Holotype ♂, Marquesas Islands, Nuku Hiva, Tunoa Ridge, 2,900', 23 January 1968, J. & T. Clarke.
- maurodicha* Clarke, 1976 (*Herpystis*); *Insects of Micronesia* 9: 74. Holotype ♂, Micronesia, Kusaie, Mutunlik, 22 m, 21 April 1953, J. Clarke.
- maximana* Barnes & Busck, 1920 (*Pero-nea*); *Contrib. Nat. Hist. Lepid. North Am.* 4: 216. Holotype ♂, Canada, British Columbia, Victoria, A. Croker.
- mayelisana* Blanchard, 1979 (*Phaneta*); *J. Lepid. Soc.* 33: 209. Holotype ♂, USA, Texas, Cottle Co., Paducah, 17 April 1968, A. & M. Blanchard.
- medioalbana* Knudson, 1986 (*Pammene*); *J. Lepid. Soc.* 40: 325. Holotype ♂, USA, Texas, Gonzales Co., Palmetto State Park, 23 March 1985, E. Knudson.
- mediopartitum* Heinrich, 1923 (*Exartema*); *Proc. Entomol. Soc. Wash.* 25: 113. Holotype ♂, USA, Virginia, 1 June 1884.
- megalorhis* Diakonoff, 1982 (*Sychnochlaena*); *Zool. Verhandl. (Leiden)* 193: 117. Holotype ♀, Sri Lanka, NE District, Kanda-ele Reservoir, 5.6 mi NW Nuwara Eliya, 6,200', 10–21 February 1970, D. Davis & B. Rowe.
- megasaccula* Brown, 1991 (*Bidorpitia*); in Brown and Powell, *Univ. Calif. Publ. Entomol.* 111: 73. Holotype ♂, Guatemala, Purulha, July, Schaus & Barnes.
- melanantha* Diakonoff, 1968 (*Peridaedala*); *Bull. U.S. Natl. Mus.* 257: 77. Holotype ♀, Philippine Islands, Mindanao, Davao Prov., E slope Mt. McKinley, mossy stunted forest, at light, 19 September 1946, CNHM Philippine Zool., Exped. 1946–47, H. Hoogstraal & D. Heyneman.
- melania* Clarke, 1955 (*Orthocomotis*); *Trans. Royal Entomol. Soc. London* 107: 153. Holotype ♂, Jamaica, St. Ann Parish, 1,750', E. Bell.
- melanomesum* Heinrich, 1923 (*Exartema*); *Proc. Entomol. Soc. Wash.* 25: 119. Holotype ♂, USA, Maine, Piscataquis Co., Sebec Lake, "July 16–23."
- melanoleuca* Clarke, 1968 (*Irazona*); *Proc. U.S. Natl. Mus.* 125: 44. Holotype ♂, Mexico, Puebla, r.f. *Pinus*, January 1960, Guevara.
- melasma* Clarke, 1968 (*Hysterosia*); *Proc. U.S. Natl. Mus.* 125: 9. Holotype ♂, Guatemala, Chejel, June, Schaus and Barnes.
- melia* Clarke, 1976 (*Adoxophyes*); *Insects of Micronesia* 9: 133. Holotype ♂, Micronesia, Guam, Fadian, 19 August 1936, ex-*Colubrina*, O. Swezey.

- melidora* Razowski 1984 (*Ardeutica*); Acta Zool. Cracov. 27: 217. Holotype ♂, Cuba, Sierra del Cobra Oriente, Loma del Gato, 2,600', 24–30 September 1935, J. Acuña, S. Bruner & L. Scaramuzza.
- meligma* Clarke, 1986 (*Dichelopa*); Smithsonian Contrib. Zool. 416: 141. Holotype ♂, Marquesas Islands, Fatu Hiva, Tahuna, 2,000', 22 March 1968, J. & T. Clarke.
- membrosa* Heinrich, 1926 (*Laspeyresia*); Bull. U.S. Natl. Mus. 132: 49. Holotype ♀, USA, Texas, Bexar Co., San Antonio, r.f. *Prosopis*, 29 June 1917, A. Busck.
- mendaciana* Blanchard & Knudson, 1983 (*Suleima*); Proc. Entomol. Soc. Wash. 85: 848. Holotype ♂, USA, Texas, Brewster Co., Big Bend National Park, Dugout Wells, 28 September 1981, E. Knudson.
- mendora* Clarke, 1968 (*Cochylis*); Proc. U.S. Natl. Mus. 125: 24. Holotype ♂, Chile, Santiago Province, Cajon de Mayo, Cordillera, El Canelo, 12–20 January 1948, T. Ramirez.
- mengelana* Fernald, 1894 (*Sericoris*); Entomol. News 5: 131. Lectotype ♂, Greenland, McCormick Bay. Designated by Miller (1970).
- meridionalis* Yasuda & Kawabe, 1980 (*Archips*); Tinea 11: 9. Holotype ♂, Japan, Hatsuno, Is. Amami-oshima, 11–13 August 1977, A. Seino.
- meritana* Heinrich, 1923 (*Epinotia*); Bull. U.S. Natl. Mus. 123: 226. Holotype ♂, USA, Utah, Carbon Co., Hiawatha, r.f. *Pinus*, em: July 1921, H. Peck.
- messalina* Clarke, 1971 (*Dichelopa*); Smithsonian Contrib. Zool. 56: 102. Holotype ♀, Rapa Island, Maugaoa, 950' (292 m), 7 Nov 1963, J. & T. Clarke.
- metallica* Busck, 1914 (*Evetria*); Proc. Entomol. Soc. Wash. 16: 146. Holotype ♂, USA, Montana, Missoula Co., Missoula, r.f. pitch of yellow pine, 2 May 1913, J. Brunner.
- metariana* Heinrich, 1923 (*Eucosma*); Bull. U.S. Natl. Mus. 123: 133. Holotype ♂, USA, California, Siskiyou Co., Shasta Retreat, "June 16–23."
- mexicana* Busck, 1907 (*Pharmacis*); J. N. Y. Entomol. Soc. 15: 30. Holotype ♂, USA, New Mexico, Beulah, 8,000', T. Cockerell, USNM type 10238.
- mezion* Razowski 1984 (*Ardeutica*); Acta Zool. Cracov. 27: 218. Holotype ♂, Cuba, Sierra del Cobre Oriente, Loma del Gato, 2,600', 24–30 September 1935, J. Acuña, S. Bruner & L. Scaramuzza.
- mesostigmatias* Diakonoff, 1977 (*Thaumato-grapha*); Zool. Verhandl. (Leiden) 158: 42. Holotype ♂, Taiwan, Rantaisan, 15 May 1933, S. Issiki.
- messalina* Clarke, 1971 (*Dichelopa*); Smithsonian Contrib. Zool. 56: 102. Holotype ♀, Rapa Island, Maugaoa, 950' [292 m], 7 November 1963, J. & T. Clarke.
- microptera* Clarke, 1953 (*Endothenia*); J. Wash. Acad. Sci. 43: 230. Holotype ♂, USA, Illinois, Putnam Co., 24 August 1949, M. Glenn.
- mieae* Kawabe, 1980 (*Lobesia*); Tinea 11: 20. Holotype ♂, Japan, Narahara, Hachioji-shi, Tokyo, 9 August 1978, A. Kawabe.
- migratana* Heinrich, 1923 (*Thiodia*); Bull. U.S. Natl. Mus. 123: 53. Holotype ♂, USA, California, Inyo Co., Olanche, "Apr 24–30."
- mimica* Clarke, 1976 (*Herpystis*); Insects of Micronesia 9: 78. Holotype ♀, Micronesia, Palau Islands, Koror Island, Koror, 29 May 1957, C. Sabrosky.
- minor* Brown 1990 (*Macrochlidia*); J. N. Y. Entomol. Soc. 98: 373. Holotype ♂, Venezuela, Aragua, Charoni Pass, 1,400 m, 20 January 1965, S. & W. Duckworth.
- minorata* Heinrich, 1924 (*Eucosma giganteana*); J. Wash. Acad. Sci. 14: 388. Holotype ♂, USA, Texas, Liberty Co., Liberty, em: 28 July 1922, F. Bottimer.
- minutana* Kearfott, 1905 (*Eucosma*); Proc. U.S. Natl. Mus. 28: 356. Lectotype ♂,

- USA, New Jersey, Essex Co., Montclair, July 1908, W. Kearfott. Designated by Blanchard (1979).
- mira* Heinrich, 1929 (*Anchylopera*); Proc. U.S. Natl. Mus. 75: 17. Holotype ♂, USA, Colorado, Jefferson Co., Chimney Gulch, Golden, April, Oslar.
- mira* Razowski, 1989 (*Saphenista*); SHILAP Revista Lepidopterologia 17: 206. Holotype ♀, Guatemala, Volcán Santa María, November, Schaus & Barnes.
- miramundi* Razowski, 1988 (*Clarkenia*); Acta Zool. Cracov. 31: 407. Holotype ♀, El Salvador, Cerro Miramundo, 233 January 1971, S. Steinhäuser.
- mirosignata* Heinrich, 1929 (*Eucosma*); Proc. U.S. Natl. Mus. 75: 11. Holotype ♂, USA, Arizona, Pima Co., Baboquivari Mountains, 15–30 October 1924, O. Poling.
- miscitata* Heinrich, 1926 (*Laspeyresia*); Bull. U.S. Natl. Mus. 132: 64. Holotype ♂, USA, California, Shasta National Forest, r.f. *Pinus jeffreyi*, May 1912, Hopk. 11414, J. Miller.
- misturana* Heinrich, 1923 (*Thiodia*); Bull. U.S. Natl. Mus. 123: 54. Holotype ♂, Canada, Saskatchewan, Oxbow, 9 June 1907, F. Knab.
- mobilensis* Heinrich, 1923 (*Eucosma*); Bull. U.S. Natl. Mus. 123: 125. Holotype ♂, USA, Alabama, Baldwin Co., near Daphne, eastern shore of Mobile Bay, "from root cuttings of *Chrysoma (Solidago) pauciflosculosa* . . . during September (1920)," em: 3 October 1920, T. van Aller.
- mochana* Busck, 1913 (*Olethreutes*); Insect. Inscit. Menst. 1: 92. Holotype ♀, British Guiana, Mocha, "bred from *Vochysia guianensis*," H. Moore.
- modestana* Busck, 1907 (*Hysterosia*); J. N. Y. Entomol. Soc. 15: 32. Holotype ♂, USA, Pennsylvania, Allegheny Co., Pittsburgh, 2 July 1905, H. Engel.
- moftatiana* Fernald, 1905 (*Proteoteras*); Canad. Entomol. 37: 16. Lectotype ♂, Canada, Ontario, London. Designated by Miller (1970).
- molesta* Busck, 1916 (*Laspeyresia*); J. Agric. Res. U.S. Dept. Agric. 7: 373. Holotype ♂, USA, Virginia, Arlington Co., Arlington, r.f. peach, em: 12 October 1916.
- molybdaina* Clarke, 1976 (*Adoxophyes*); Insects of Micronesia 9: 138. Holotype ♂, Micronesia, Ponape, Colonia, 7 January 1953, J. Clarke.
- molybdina* Clarke, 1968 (*Carolella*); Proc. U.S. Natl. Mus. 125: 53. Holotype ♀, Mexico, San Luis Potosí, Tamazunchale, 6 January 1947, Chapman.
- monela* Clarke, 1976 (*Icelita*); Insects of Micronesia 9: 39. Holotype ♀, Micronesia, Kusaie, Mutunlik, 22 m, 29 January 1953, J. Clarke.
- monetiferanum* Riley, 1881 (*Exartema*); Trans. St. Louis Acad. Sci. 4: 317. Holotype ♂, USA, Alabama, Barbour Co., Eufala, G. Latimer. Riley described this species from a single specimen.
- monitorana* Heinrich, 1920 (*Eucosma*); Proc. U.S. Natl. Mus. 57: 58. Holotype ♂, USA, Pennsylvania, Danville, r.f. cones of *Pinus*, em: 4 May 1916, A. Champlain.
- monstrata* Razowski, 1984 (*Aphalonia*); Ann. Zool. Warsz. 38: 276. Holotype ♂, Peru, Divisoria, 5,200', 20–23 June 1982, C. Covell.
- montana* Busck, 1914 (*Evetria*); Proc. Entomol. Soc. Wash. 16: 147. Holotype ♂, USA, Montana, Elliston, r.f. *Pinus contorta*, em: 10 December 1913, J. Bruner.
- montana* Bartlett-Calvert, 1892 (*Antithesia*); Univ. Santiago Chile, Univ. Ann. 84: 831. Neotype ♂, Argentina, Neuquén, Chapelco, Techos, 1,400 m, 24 January 1984, M. & P. Gentili. Designated by Brown (1998).
- monticolana* Kawabe, 1964 (*Clepsis*); Tyo to Ga 15: 1. Holotype ♂, Japan, Toyama Pref., Honshu, Mt. Tateyama, 29 August 1962, A. Kawabe.
- moriutii* Kawabe, 1987 (*Stenodes*); Microlepid. Thailand 1: 72. Holotype ♂, Thailand, Chiang Mai, Doi Pui, ca.

- 1,300 m, 26–27 October 1985, S. Moriuti, T. Saito & Y. Arita.
- mormonensis* Heinrich, 1923 (*Evetria*); Bull. U.S. Natl. Mus. 123: 44. Holotype ♂, USA, Utah, Sal Lake Co., Salt Lake City, C. Ainslie.
- murtfeldtiana* Riley, 1881 (*Anchylopera*); Trans. St. Louis Acad. Sci. 4: 323. "Type" ♂, USA, Missouri, r.f. oak, em: 19 May 1875, M. Murtfeldt. Riley described this species from three specimens, only one of which could be located by us.
- musetta* Blanchard & Knudson, 1983 (*Phaneta*); Proc. Entomol. Soc. Wash. 85: 845. Holotype ♂, USA, New Mexico, Socorro Co., Gran Quivara Natl. Monument, 6,600', 1–3 July 1964, D. Davis.
- mydros* Obraztsov, 1966 (*Idolatteria*); Proc. U.S. Natl. Mus. 119: 6. Holotype ♀, Ecuador, Environs de Loja, 1887.
- myopori* Clarke, 1971 (*Dichelopa*); Smithsonian Contrib. Zool. 56: 115. Holotype ♂, Rapa Island, Pariati Bay, r.f. *Myoporum rapensis*, em: 30 Nov 1963, J. & T. Clarke.
- myoxa* Razowski, 1984 (*Polyortha*); Acta Zool. Cracov. 27: 220. Holotype ♂, Brazil, Santa Catarina, Nova Teutonia, November 1961, F. Plaumann.
- naevifera* Razowski, 1984 (*Polyortha*); Acta Zool. Cracov. 27: 223. Holotype ♂, Venezuela, Aragua, Rancho Grande, 10–21 February 1969, Duckworth & Dietz.
- nakajimai* Kawabe, 1992 (*Acleris*); Tinea 13: 172. Holotype ♂, Taiwan, Hualien Hsien, Houhuanshan, Luoying Lodge, 2,800 m, 31 December 1988, A. Kawabe.
- naoma* Clarke, 1953 (*Epiblema*); J. Wash. Acad. Sci. 43: 226. Holotype ♂, USA, Illinois, Putnam Co., r.f. *Ratibida pin-nata*, 25 June 1950, M. Glenn.
- nebulosana* Packard, 1867 (*Grapholitha*); Proc. Boston Soc. Nat. Hist. 11: 61. Syntype ♂, Canada, Labrador, Strawberry Harbor, 26–30 July. Although the original description does not indicate how many specimens were examined nor identify a type, it states that the species "is not infrequent at Strawberry Harbor . . ."
- negligens* Kawabe, 1978 (*Neoanathamna*); Tinea 10: 185. Holotype ♂, Japan, Shikoku, Kagawa Pref., Mt. Zozu, 22 May 1968, H. Toshima.
- negundana* Dyar, 1902 (*Cacoecia*); in Caudell, Proc. Entomol. Soc. Wash. 5: 78. "Type" ♂, USA, Colorado, El Paso Co., Pike's Peak, Dyar & Caudell. Dyar briefly diagnosed this species in a report by Caudell (1902) without mentioning any specimens or designating a type.
- neoclyta* Razowski, 1988 (*Clarkeulia*); Acta Zool. Cracov. 31: 405. Holotype ♂, Colombia, Nariño, Volcán Galeras, 2,900 m, 13 January 1959, J. Clarke.
- neomexicana* Dyar, 1903 (*Evetria*); Proc. Entomol. Soc. Wash. 5: 286. Holotype ♂, USA, New Mexico, San Miguel Co., Las Vegas. This species was described from the single male cited above.
- nepotinana* Heinrich, 1923 (*Thiodia*); Bull. U.S. Natl. Mus. 123: 263. Holotype ♂, USA, Utah, Juab Co., Eureka, 30 May 1911, T. Spalding.
- nephelodes* Clarke, 1968 (*Amallectis*); Proc. U.S. Natl. Mus. 125: 27. Holotype ♂, Bolivia, Cochabamba, Incachaca, tropical cloud area, 2,100 m, 27 August–5 September 1956, L. Peña.
- nigra* Miller, 1966 (*Laspeyresia*); J. Lepid. Soc. 20: 251. Holotype ♂, Mexico, Tlaxcala, February 1964, "en semilla *P. ayacahuite*."
- nigralbana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 41. Syn-type ♂, USA, California, Mendocina Co., 10 June 1871. This species was described from two males and two females; the other syntypes are presumed to be in the BMNH.
- nigricolor* Yasuda & Kawabe, 1980 (*Kawabeia*); Tinea 11: 10. Holotype ♂, Japan, Nagano Pref. Azumi V., Shimaji-

- ma-dani, 780 m, 23 October 1976, N. Hirano.
- nigri-lineana* Kawabe, 1963 (*Acleris*); Tyo to Ga 14: 71. Holotype ♂, Japan, Nagano Pref., Honshu, Asama-sanso, 4 May 1962, A. Kawabe.
- nigri-plagana* Franclemont, 1986 (*Archips*); Proc. Entomol. Soc. Wash. 88: 59. Holotype ♂, USA, New York, Tompkins Co., McLean Bogs Reserve, 2 July 1953, J. Franclemont.
- nigrivelata* Walsingham, 1914 (*Tortrix*); Biol. Centr.-Am., Lepid., Heter. 4: 283. Holotype ♂, Panama, Canal Zone, Tabernilla, A. Busck. Walsingham described this species from a single male.
- nigromaculata* Issiki, 1930 (*Simaethis*); Ann. Mag. Natl. Hist. 6: 423. Holotype ♀, Japan, Honsyu, Iwawakisan, 9 August 1918, S. Issiki.
- nigropunctata* Kawabe, 1985 (*Geogepa*); Tinea 12: 7. Holotype ♂, Taiwan, Chia Hsien, Fenchihu, 1,400 m, 8 August 1971, Y. Shabata.
- ninana* Dyar, 1903 (*Carpocapsa*); List Lepid. North Am.: 471. Two syntypes (1 ♂, 1 ♀), USA, Arizona, Fort Grant, 18 July 1892. Authorship of this taxon (as *Grapholitha ninana*) usually is attributed to Riley; the name first appeared in Riley's contribution to Smith's (1891: 93) checklist of the Lepidoptera of North America without a description or reference to specimens examined. Heinrich (1926: 60) correctly recognized that Dyar presented the first description, based on Riley's specimens, in a footnote in his checklist (Dyar 1903), and hence should be considered the author.
- nipponana* Razowski, 1977 (*Stenodes*); Tyo to Ga 28: 35. Holotype ♂, Japan, Sikkoku, Asizuri-Saki, 10 May 1951, S. Issiki.
- nipponica* Kawabe, 1976 (*Eucosma*); Tinea 11: 40. Holotype ♂, Japan, Kanagawa Pref., Oyama, 13 May 1958, A. Kawabe.
- nitida* Clarke, 1955 (*Orthocomotis*); Trans. Royal Entomol. Soc. London 107: 143. Holotype ♂, Guatemala, Cayuga, "4," Schaus & Barnes.
- nitida* Horak, 1984 (*Heterochorista*); Syst. Entomol. 9: 429. Holotype ♂, Papua New Guinea, Morobe District, Wau, 1,200 m, mercury vapor light, 8-14 December 1976, G. Hevel & R. Dietz.
- niveopunctata* Dognin, 1905 (*Polyortha*); Ann. Soc. Entomol. Belgium 49: 85. Holotype ♀, Ecuador, Environs de Loja, 1893.
- niveosana* Packard, 1867 (*Sciaphila*); Proc. Boston Soc. Nat. Hist. 11: 55. Holotype ♂, Canada, Labrador, Hopedale, 3 August. The original description appears to have been based on a single male.
- nota* Kawabe, 1978 (*Cryptophlebia*); Tinea 10: 188. Holotype ♂, Japan, Honshu, Ishikawa Pref., Anamizu, Bira, 9 August 1961, A. Kawabe.
- notialis* Miller, 1985 (*Eucosma*); Ann. Entomol. Soc. Am. 78: 244. Holotype ♂, USA, Texas, Kerr Co., Kerrville, 6 June, Lacey.
- novimundi* Heinrich, 1920 (*Laspeyresia*); Canad. Entomol. 52: 257. Holotype ♂, USA, Wisconsin, Door Co., Sturgeon Bay, 14 July 1920, C. Fluke.
- nymphana* Blanchard & Knudson, 1983 (*Gretchena*); Proc. Entomol. Soc. Wash. 85: 851. Holotype ♂, USA, Texas, Anderson Co., Tennessee Colony, Gus Engeling Wildlife Management Area, 15 April 1968, A. & M. E. Blanchard.
- nuntia* Heinrich, 1929 (*Eucosma*); Proc. U.S. Natl. Mus. 75: 10. Holotype ♂, USA, Utah, Juab Co., Callao, 17 April 1922.
- nythobia* Clarke, 1971 (*Cryptophlebia*); Smithsonian Contrib. Zool. 56: 133. Holotype ♀, Rapa Island, Haurei, r.f. *Myoporum rapensis*, 19 September 1963, J. & T. Clarke.
- oachranta* Diakonoff, 1974 (*Polylopha*); Zool. Verhand. (Leiden) 131: 72. Holotype ♀, Saipan Island, Marianas, 0.5 mi E Tanapag, 20 April 1945, H. Dybas.
- obfuscana* Riley, 1888 (*Paedisca*); Proc.

- Entomol. Soc. Wash. 1: 33. "Type" ♂, USA, r.f. *Solidago*, 2 June 1884. Riley did not indicate the number of specimens examined.
- obliqua* Diakonoff, 1982 (*Grapholita*); Zool. Verhandl. (Leiden) 193: 20. Holotype ♂, Sri Lanka, Anuradhapura District, Wildlife Sanctuary Bungalow, Hunuwilagama, Wilpattu, 200', 10–19 March 1970, Davis & Rowe.
- obnigrana* Heinrich, 1923 (*Proteoteras*); Bull. U.S. Natl. Mus. 123: 169. Holotype ♂, USA, New Hampshire, Cheshire Co., Dublin, A. Busck.
- obnisa* Heinrich, 1926 (*Laspeyresia*); Bull. U.S. Natl. Mus. 132: 47. Holotype ♀, Canada, British Columbia, Fraser Mills, 16 June 1922, E. Blackmore.
- occidentalis* Heinrich, 1923 (*Thiodia striatana*); Bull. U.S. Natl. Mus. 123: 58. Holotype ♂, USA, California, Siskiyou Co., Shasta Retreat, "July 16–23."
- oceani* Diakonoff, 1956 (*Bactra*); Zool. Verhandl. (Leiden) 29: 59. Holotype ♂, Fiji Islands, Nadi, at light, July, J. Illinoworth.
- ochracea* Clarke, 1955 (*Orthocomotis*); Trans. Royal Entomol. Soc. London 107: 144. Holotype ♂, Costa Rica, Cartago Province, Juan Vinas, W. Schaus.
- ochraceana* Fernald, 1901 (*Epiblema*); J. N. Y. Entomol. Soc. 9: 51. Holotype ♂, USA, Florida, Palm Beach Co., Palm Beach. This species was described from a single male.
- ochroma* Clarke, 1986 (*Dichelopa*); Smithsonian Contrib. Zool. 416: 138. Holotype ♂, Marquesas Islands, Nuku Hiva, Tapuaoa, 2,500', 30 January 1968, J. & T. Clarke.
- ochrosaphes* Clarke, 1955 (*Orthocomotis*); Trans. Royal Entomol. Soc. London 107: 152. Holotype ♂, Brazil, Santa Catarina, 27 December 1935, F. Hoffman.
- oclifera* Heinrich, 1926 (*Hemimene*); Bull. U.S. Natl. Mus. 132: 21. Holotype ♂, USA, Nevada, Washoe Co., Pyramid Lake.
- oenotherana* Riley, 1881 (*Conchylis*); Trans. St. Louis Acad. Sci. 4: 316. "Type" ♀, USA, Missouri, r.f. *Oenothera*, M. Murtfeld. Riley refers to four specimens in the original description; we have been able to locate only the specimen cited above.
- ogasawaraensis* Kawabe & Ku, 1978 (*Mentendothenia*); Tinea 10: 169. Holotype ♂, Japan, Ogasawara Island, Omura, Chichijima, 14 June 1972, Y. Watanabe.
- okubiensis* Kawabe, 1987 (*Eucosma*); Tinea 12: 141. Holotype ♂, Japan, Okinawa Island, Okubi, Kin, r.f. *Bruguiera gymnorhiza*, 26 April 1983, S. Hori.
- olivaceana* Fernald, 1882 (*Eccopsis*); Trans. Am. Entomol. Soc. 10: 71. Lectotype ♂, USA, Pennsylvania. Designated by Miller (1970).
- olivaceana* Riley, 1881 (*Grapholitha*); Trans. St. Louis Acad. Sci. 4: 320. Holotype ♂, USA, Illinois, J. Muhleman. Riley described this species from a single specimen.
- olivata* Dognin, 1905 (*Tortrix*); Ann. Soc. Entomol. Belgium 49: 85. Holotype ♂, Colombia, Popayan, 1895.
- onychistica* Diakonoff, 1982 (*Age*); Zool. Verhandl. (Leiden) 193: 57. Holotype ♂, Sri Lanka, Mannar District, Mannar Island, 2 mi. NE Mannar, 15', 22 March 1970, D. Davis & B. Rowe.
- opistocapna* Diakonoff, 1977 (*Thaumato-grapha*); Zool. Verhandl. (Leiden) 158: 38. Holotype ♂, New Guinea, Wareng, 12 July 1936, S. Issiki.
- opposita* Heinrich, 1931 (*Epinotia*); Proc. U.S. Natl. Mus. 79: 7. Holotype ♂, Peru, Lima, D. Willie, "No. 154.29."
- optimana* Dyar, 1893 (*Eucosma*); Proc. Entomol. Soc. Wash. 5: 180. Syntype ♂, USA, Colorado, Garfield Co., Glenwood Springs, "Oct 1–7," W. Barnes; syntype ♀, USA, Colorado, Eagle Co., T. Cockerell. The two specimens listed comprise the type series.
- orcula* Razowski, 1988 (*Oregocerata*); Acta Zool. Cracov. 31: 393. Holotype ♂, Bolivia, Cochabamba, Incachaca,

- tropical cloud area, 2,100 m, 27 August–5 September 1956, L. Peña.
- oregonensis* Heinrich, 1923 (*Thiodia*); Bull. U.S. Natl. Mus. 123: 47. Holotype ♂, USA, Oregon, Klamath Co., Crater Lake, "July 24–31."
- oribasus* Razowski, 1988 (*Oryguncus*); Acta Zool. Cracov. 31: 402. Holotype ♂, Peru, Cusco, Machu Picchu, 2,700 m, 6 February 1959, J. Clarke.
- ornatula* Heinrich, 1924 (*Thiodia*); J. Wash. Acad. Sci. 14: 385. Holotype ♂, USA, Pennsylvania, Allegheny Co., Oak Station, 21 June 1909, F. Marloff.
- orphnoxantha* Obraztsov, 1966 (*Pseudomeritastis*); Proc. U.S. Natl. Mus. 118: 227. Holotype ♂, Costa Rica, Cartago Province, Tuis, 2,400', W. Schaus.
- osmundana* Fernald, 1879 (*Penthina*); Canad. Entomol. 11: 156. Lectotype ♀, USA, Maine, Penobscot Co., Orono, July, r.f. *O. regalis*. Designated by Miller (1970).
- ostentatrix* Heinrich, 1923 (*Hystricophora*); Bull. U.S. Natl. Mus. 123: 270. Holotype ♂, USA, California, Tulare Co., Mineral King, "Aug. 1–7." Heinrich (1923) consistently misspelled *Hystrichophora* in his revision.
- oxybela* Razowski, 1988 (*Ptyognathosia*); Acta Zool. Cracov. 31: 394. Holotype ♂, Colombia, Cauca, Paramo de Parace, Lake San Rafael, 3,570 m, 29 January 1959, J. Clarke.
- oxycoccana* Packard, 1869 (*Peronea*); Guide to the Study of Insects: 334. "Type" ♂, USA, eastern states. This is the only Packard specimen of this species we could locate; it is clearly labeled as the type. Packard did not indicate how many specimens he examined.
- oxygona* Diakonoff, 1968 (*Eudemis*); Bull. U.S. Natl. Mus. 257: 50. Holotype ♀, Philippine Islands, Los Baños, 2 July 1932, A. Evangelista.
- oxyropa* Razowski, 1990 (*Ptoseulia*); SHI-LAP Rev. Lepid. 18: 212. Holotype ♂, Costa Rica, Cartago Province, Turrialba, 22–28 February 1965, S. & W. Duckworth.
- ozonia* Razowski, 1990 (*Ptoseulia*); SHI-LAP Rev. Lepid. 18: 213. Holotype ♀, Bolivia, Cochabamba, Incachaca, tropical cloud area, 2,100 m, 27 August–5 September 1956, L. Peña.
- packardiana* Fernald, 1886 (*Tortrix*); Bull. U.S. Dept. Agric. Entomol. 12: 20. Two syntypes (2 ♂♂), USA, Maine, Peaks Island, Casco Bay; and USA, New Hampshire; both specimens are labeled "cotype." Freeman (1958) correctly indicated that the "type" is in the USNM, listing Peaks Island as the type locality. This could be interpreted as his designation of the Maine specimen as the lectotype.
- pallens* Kawabe, 1980 (*Neoanathamna*); Tinea 11: 22. Holotype ♂, Japan, Hitotsu-uchi, Shionoe, Kagawa, 2 June 1973, H. Tashima.
- pallidibasalis* Heinrich, 1920 (*Laspeyresia*); Proc. U.S. Natl. Mus. 57: 60. Holotype ♂, USA, Oregon, Kaolin Beds, r.f. cones of *Abies concolor*, 7 September 1915, Sergent & Patterson.
- pallifasciata* Powell, 1978 (*Rhyacionia*); in Powell and Miller, U.S. Dept. Agric., Agric. Handb. 514: 28. Holotype ♂, USA, Arizona, Coconino Co., Fort Valley, 2.5 mi NW Flagstaff, 10 July 1981, R. Hodges.
- palmetum* Heinrich, 1928 (*Laspeyresia*); Proc. Entomol. Soc. Wash. 30: 6. Holotype ♂, USA, Florida, near Royal Palms State Park, "III.4," F. Jones.
- palpana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 54. Two syntypes (2 ♂♂), USA, California, Siskiyou Co., Mount Shasta, August 1871. This species was described from five males and one female. All but the two syntypes listed above are presumed to be in the BMNH.
- paracinderella* Powell, 1964 (*Acleris*); Univ. Calif. Publ. Entomol. 32: 96. Ho-

- lotype ♂, USA, California, Nevada Co., r.f., *Prunus dumosa*, C. Riley.
- paracornuta* Brown, 1991 (*Cuproxena*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 55. Holotype ♂, Venezuela, Aragua, Rancho Grande, 1,100 m, 16–23 October 1966, S. & W. Duckworth.
- paradisiae* Heinrich, 1923 (*Hystrichophora*); Bull. U.S. Natl. Mus. 123: 255. Holotype ♂, USA, Washington, Pierce Co., Mount Rainier, Paradise Valley, "July 24–30." Heinrich (1923) consistently misspelled *Hystrichophora* in his revision.
- paragnoma* Clarke, 1986 (*Dichelopa*); Smithsonian Contrib. Zool. 416: 139. Holotype ♀, Marquesas Islands, Hiva Oa, Puamau, 8 February 1968, J. & T. Clarke.
- parallelana* Walsingham, 1879 (*Cochylis*); Ill. Lepid. Heter. Brit. Mus. 4: 28. Syntype ♀, USA, California, Lake Co., 18 June 1871. This species was described from two males and two females; the other syntypes are presumably in the BMNH.
- parana* Busck, 1911 (*Tortrix*); Proc. U.S. Natl. Mus. 40: 228. Holotype ♀, Brazil, Paraná, Castro, "6234 Wlsm. 1908."
- paraplesiana* Blanchard, 1979 (*Sonia*); J. Lepid. Soc. 33: 184. Holotype ♂, USA, Texas, Harris Co., Houston, 5 June 1968, A. & M. Blanchard.
- parmata* Razowski, 1984 (*Ardeutica*); Acta Zool. Cracov. 27: 216. Holotype ♂, Costa Rica, Ojo de Agua, Rt. 2, km 75, 20 July 1967, O. Flint.
- parva* Brown, 1984 (*Corticivora*); Proc. Entomol. Soc. Wash. 86: 279. Holotype ♂, USA, Arkansas, Washington Co., Devil's Den State Park, 24 June 1966, R. Hodges.
- parvana* Kawabe, 1980 (*Phalonidia*); Tinea 11: 29. Holotype ♂, Japan, Yamanashi Pref., Kiyosato, 22 July 1972, A. Kawabe.
- passerana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 49. Syntype ♀, USA, California, Mendocino Co., 9–10 June 1871. According to the original description, this species was described from four males. Because the USNM specimen is almost certainly part of the type series, Walsingham apparently erred in his determination of the sexes. There is a congeneric male specimen in the type collection labeled as "*Paedisca plumigerana* Wlsm. Cal. Type"—apparently a Walsingham manuscript name.
- pastigiata* Heinrich, 1929 (*Thiodia*); Proc. U.S. Natl. Mus. 75: 3. Holotype ♂, USA, California, Tulare Co., Monachee Meadows, 8,000', "July 8–14."
- pediasios* Miller, 1985 (*Eucosma*); Ann. Entomol. Soc. Am. 78: 241. Holotype ♂, USA, Texas, Terrel Co., Sanderson, 25 April 1981, E. Knudson.
- penai* Brown, 2000 (*Lobogenesis*); Proc. Entomol. Soc. Wash. 102: 27. Holotype ♂, Bolivia, Incachaca, Cochabamba, 2,100 m, tropical cloud forest area, 27 August–5 September 1956, L. Peña.
- penai* Clarke, 1968 (*Amallectis*); Proc. U.S. Natl. Mus. 125: 28. Holotype ♀, Bolivia, Cochabamba, Incachaca, tropical cloud area, 2,100 m, 27 August–5 September 1956, L. Peña.
- penai* Razowski, 1988 (*Inape*); Acta Zool. Cracov. 31: 395. Holotype ♂, Bolivia, Cochabamba, Incachaca, tropical cloud area, 2,100 m, 27 August–5 September 1956, L. Peña.
- pennsylvaniana* Kearfott, 1907 (*Proteopteryx*); Trans. Am. Entomol. Soc. 33: 48. "Type" ♂, USA, Pennsylvania, Beaver Co., New Brighton, 22 March 1903, H. Merrick [genitalia slide only; we have been unable to find the pinned specimen]. The original description of *pennsylvaniana* consists of the final paragraph of the description of *Proteopteryx albicapitana*: "It is not impossible that fuller knowledge of the life histories of the western and eastern forms may prove them to be separate and distinct, in which case I would propose the name

- pennsylvaniana* for the latter." Klots (1942) makes no mention of this species; i.e., presumably no Kearfott specimens are in the AMNH.
- pergandeana* Fernald, 1905 (*Eucosma*); Canad. Entomol. 37: 399. Lectotype ♂, USA, Virginia, 4 June 1882. Designated by Miller (1970).
- periculosana* Heinrich, 1923 (*Epiblema*); Bull. U.S. Natl. Mus. 123: 268. Holotype ♂, Canada, British Columbia, Mount McLean, 5,500', August, A. Hanham.
- peroneana* Barnes & Busck, 1920 (*Tortrix*); Contrib. Nat. Hist. Lepid. North Am. 4: 214. Holotype ♂, USA, Arizona, Cochise Co., Palmerlee [Huachuca Mountains].
- perplexana* Fernald, 1901 (*Epiblema*); J. N. Y. Entomol. Soc. 9: 51. Holotype ♂, USA, Florida, Palm Beach Co., Palm Beach, H. Dyar.
- perpropinqua* Heinrich, 1929 (*Eucosma*); Proc. U.S. Natl. Mus. 75: 8. Holotype ♂, USA, Arizona, Pima Co., Indian Oasis, Sells Post Office, 15–30 April 1923, O. Poling.
- persolita* Heinrich, 1929 (*Eucosma*); Proc. U. S. Natl. Mus. 75: 7. Holotype ♂, USA, Texas, Cameron Co., San Benito, "March 16–23."
- perspicua* Diakonoff, 1968 (*Sycacantha inodes*); Bull. U.S. Natl. Mus. 257: 61. Holotype ♂, Philippine Islands, Luzon, Mt. Makiling, Baker.
- perspicuana* Barnes & Busck, 1920 (*Hysterosia*); Contrib. Nat. Hist. Lepid. North Am. 4: 218. Holotype ♀, USA, Arizona, Cochise Co., Paradise, August.
- peruvianus* Razowski, 1988 (*Telurips*); Acta Zool. Cracov. 31: 391. Holotype ♂, Peru, Cusco, Machu Picchu, 2,700 m, 6 February 1959, J. Clarke.
- phaeostropha* Clarke, 1976 (*Duessia*); Insects of Micronesia 9: 30. Holotype ♀, Micronesia, Rota, Rota, 22 m, at light, 20 July 1946, Townes 805.
- phalaenopa* Diakonoff, 1968 (*Argyroptocha*); Bull. U.S. Natl. Mus. 257: 70. Holotype ♂, Philippine Islands, Luzon, Mt. Makiling, Baker.
- pharetrata* Razowski, 1987 (*Terinebrica*); Tinea 12(suppl.): 136. Holotype ♂, Argentina, Tucumán, Ciudad Universitaria, 800 m, 17 February 1959, J. Clarke.
- philerocherda* Diakonoff, 1964 (*Bactra*); Zool. Verhandl. (Leiden) 70: 31. Holotype ♂, British West Indies, Dominica, Antrim, 1,000', 13 March 1956, J. Clarke.
- physoptila* Diakonoff, 1968 (*Peridaedala*); Bull. U.S. Natl. Mus. 257: 75. Holotype ♂, Philippine Islands, Davao Province, Mindanao, Mt. Apo, 7,000', at light, November 1946, CNHM Philippine Zool. Exped., Alcasid.
- piceae* Issiki, 1961 (*Panoplia*); in Issiki & Mutuura, Shinyogu Kagai Shogarui: 36. Holotype ♂, Japan, Honsyu, Sinano, Omekura, 14 July 1957, r.f. pupa on German *Picea*, T. Yasuda.
- piceaea* Busck, 1916 (*Olethreutes*); Proc. Entomol. Soc. Wash. 18: 151. Holotype ♂, USA, Colorado, El Paso Co., Colorado Springs, "bred during May and July in the Forest Insect Division from *Picea parryana* and *Picea engelmanni*," J. Polloch & B. Harvey.
- pivicola* Dyar, 1906 (*Eucosma*); J. N. Y. Entomol. Soc. 14: 108. Holotype ♀, USA, Washington, Pierce Co., Mt. Rainier, Paradise Valley, r.f. *Abies lasiocarpa*, H. Burke. According to the original description, this species was described from a single female.
- pimana* Busck, 1907 (*Phalonia*); J. N. Y. Entomol. Soc. 15: 24. Holotype ♀, USA, Arizona, Pima Co., Baboquiverra Mtns., August.
- piperana* Busck, 1906 (*Hemimene*); Proc. Biol. Soc. Wash. 19: 177. Holotype ♂, USA, Washington, Whitman Co., Pullman, 19 July 1898.
- pithecolobiae* Busck, 1934 (*Gymnandrosoma*); Entomol. Am. 13: 156. Holotype ♂, Cuba, Havana Province, Santiago, Vegas, 15 July 1931, A. Otero.
- placidus* Yasuda & Kawabe, 1980 (*Acleris*);

- Tinea* 11: 12. Holotype ♂, Japan, Nippara, Tokyo, 11 April 1964, A. Kawabe.
- platina* Clarke, 1968 (*Irazona*); Proc. U.S. Natl. Mus. 125: 45. Holotype ♂, Costa Rica, Alajuela Province, Mount Poas, May.
- platyoxantha* Clarke, 1986 (*Dichelopa*); Smithsonian Contrib. Zool. 416: 131. Holotype ♀, Marquesas Islands, Fatu Hiva, Mt. Teoiaua, 2,000', 22 March 1968, J. & T. Clarke.
- pleodontia* Razowski, 1987 (*Monortha*); Bull. Polish Acad. Sci. 35: 65. Holotype ♂, Panama, Rio Trinidad, March 1912, A. Busck.
- pleurogramma* Clarke, 1976 (*Duessia*); Insects of Micronesia 9: 28. Holotype ♂, Micronesia, Kusaie, Mutunlik, 22 m, 30 March 1953, J. Clarke.
- plicata* Brown, 1992 (*Catastega*); J. N. Y. Entomol. Soc. 100: 224. Holotype ♀, USA, Arizona, Santa Cruz Co., Santa Rita Mountains, Madera Canyon, Bog Spring Camp Ground, 5,100', 10–26 July 1964, D. Davis.
- plumbata* Clarke, 1951 (*Anchylopera*); J. Wash. Acad. Sci. 41: 296. Holotype ♂, Argentina, Tigre, May 1944, F. Bourquin.
- plumbosana* Kawabe, 1972 (*Olethreutes*); *Tinea* 9: 244. Holotype ♂, Toyama Pref., Ohmaki, 3 June 1951, M. Hoshino.
- plummeriana* Busck, 1906 (*Hemimene*); Proc. Biol. Soc. Wash. 19: 181. Holotype ♂, USA, Maryland, Montgomery Co., Plummer Island (in Potomac River above Washington, D.C.), May 1906.
- plummeriana* Busck, 1907 (*Phalonia*); J. N. Y. Entomol. Soc. 15: 24. Holotype ♂, USA, Maryland, Montgomery Co., Plummer Island, 1 May 1903, A. Busck.
- poecilogramma* Clarke, 1976 (*Adoxophyes*); Insects of Micronesia 9: 125. Holotype ♂, Micronesia, Kusaie, Hill 1010, 300 m, light trap, 13 April 1953, J. Clarke.
- pollexifera* Razowski, 1989 (*Tambomachaya*); SHILAP Revta. Lepid. 17: 205. Holotype ♂, Peru, Cusco, Tambomachay 3,690 m, 3 February 1959, J. Clarke.
- polysticta* Clarke, 1976 (*Cryptaspasma*); Insects of Micronesia 9: 63. Holotype ♀, Micronesia, Kusaie, Mt. Matante, 300 m, 1 February 1953, J. Clarke.
- ponderosa* Powell, 1968 (*Eucosma*); Hiliardia 39: 13. Holotype ♂, USA, Oregon, Lake Co., Embury's Mill, nr. Silver Lake, r.f. *Pinus ponderosa*, 5 August 1915, P. Sergeant.
- ponderosana* Obraztsov, 1962 (*Choristoneura lambertiana*); Am. Mus. Novit. 2101: 14. Holotype ♂, USA, Colorado, Sugarloaf, r.f. *Pinus ponderosa*, 7 August 1937, J. Beal.
- ponera* Walsingham, 1914 (*Tortrix*); Biol. Centr.-Am., Lepid., Heter. 4: 279. Holotype ♂, Mexico, Puebla, Popocatepetl Park, 13,000', W. Schaus. Walsingham clearly identifies the USNM male as "Type" in the original description.
- poolei* Brown, 1991 (*Bidorpitia*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 73. Holotype ♂, Venezuela, Aragua, Rancho Grande, 1,100 m, 8–14 August 1967, R. Poole.
- populana* Busck, 1916 (*Laspeyresia*); Proc. Entomol. Soc. Wash. 18: 151. Holotype ♀, USA, Montana, Missoula Co., Missoula, 15 June 1914, J. Brunner.
- postica* Bae, 1993 (*Lobesia*); Japan. J. Entomol. 61: 522. Holotype ♀, Taiwan, Pintung Hsien, Kenting Park, 100 m, 26–27 March 1984, A. Kawabe.
- pottsi* Clarke, 1976 (*Dudua*); Insects of Micronesia 9: 94. Holotype ♂, Micronesia, Truk, Wena (Moen), Civil Administration Area, 6 March 1949, R. Potts.
- praesumptiosa* Heinrich, 1923 (*Epiblema*); Bull. U.S. Natl. Mus. 123: 143. Holotype ♂, USA, Texas, Cameron Co., Brownsville, 27 May 1917, A. Busck.
- prochaldera* Clarke, 1955 (*Orthocomotis*); Trans. Royal Entomol. Soc. London 107: 145. Holotype ♂, Ecuador, Environs de Loja, 1890.

- proxima* Clarke, 1976 (*Dudua*); Insects of Micronesia 9: 91. Holotype ♀, Micronesia, Ponape, Colonia, 9 January 1953, J. Clarke.
- pruni* Heinrich, 1923 (*Anchylopera burgesiana*); Bull. U.S. Natl. Mus. 123: 239. Holotype ♂, USA, New Jersey, Caldwell, 17 May 1903, W. Kearfott.
- psathyra* Diakonoff, 1989 (*Lopharcha*); Tinea 12: 202. Holotype ♂, Japan, Kyushu, Hikosan, 15 July 1937, S. Issiki.
- pseudogamma* Brown, 1990 (*Paraptila*); J. Lepid. Soc. 44: 265. Holotype ♂, El Salvador, Santa Tecla, 28–29 October 1967, E. Todd.
- pseudolivata* Clarke, 1955 (*Orthocomotis*); Trans. Entomol. Soc. London 107: 147. Holotype ♂, Brazil, New Bremen, 7 October 1936, F. Hoffman.
- pseudomalesana* Clarke, 1986 (*Cydia*); Smithsonian Contrib. Zool. 416: 164. Holotype ♂, Marquesas Islands, Fatu Hiva, Omoa, 16 March 1968, J. & T. Clarke.
- pseudoplesia* Brown, 1991 (*Cuproxena*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 60. Holotype ♂, Venezuela, Aragua, Rancho Grande, 1,100 m, 22–31 July 1967, R. Poole.
- pseudotsugana* Kearfott, 1904 (*Cydia*); Canad. Entomol. 36: 110. Holotype ♂, Canada, British Columbia, Kaslo, r.f. *Pseudotsuga*, larva collected 24 June. Although the specimen bearing the Kearfott type label (Type No. 7788) has no locality data, the pupal shell and associated plant material indicate that it is the specimen referred to as "also bred by him [Dyar] from larvae taken June 24 on *Pseudotsuga* sp."
- ptycta* Razowski, 1987 (*Popayanita*); Tinea 12(suppl.): 126. Holotype ♂, Colombia, Cauca, 17 km SE Popayan, 2,000 m, 10 January 1959, J. Clarke.
- ptygma* Razowski, 1993 (*Apotoforma*); Acta Zool. Cracov. 36: 186. Holotype ♀, Mexico, San Luis Potosí, 8 August 1966, O. Flint. Although the specimen is not labeled as the holotype, Razowski's description was clearly based on this single female specimen.
- pulchella* Kawabe, 1963 (*Acleris*); Tyo to Ga 14: 71. Holotype ♂, Japan, Honshu, Tokyo, Tama Hills, 27 June 1958, M. Suzuki.
- pulcheria* Clarke, 1971 (*Dichelopa*); Smithsonian Contrib. Zool. 56: 120. Holotype ♂, Rapa Island, Perau, 1,900', 15 October 1963, J. & T. Clarke.
- pulcherrima* Razowski, 1971 (*Acleris*); Acta Zool. Cracov. 16: 548. Holotype ♀, Taiwan, Hassenzan, 5 June 1942, S. Issiki.
- pulsatillana* Dyar, 1903 (*Eucosma*); Proc. Entomol. Soc. Wash. 5: 297. Nineteen syntypes, USA, Colorado, Jefferson Co., "foothills at Boulder and Golden," r.f. *Pulsatilla hirsutissima*. According to the original description, this species was described from 20 males and eight females.
- pulveratana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 45. Syntype ♂, USA, California, San Francisco, 16 May 1871. This species was described from four males, three of which are presumed to be in the BMNH.
- punctidiscanum* Dyar, 1904 (*Gymmandro-soma*); Proc. Entomol. Soc. Wash. 6: 60. Two syntypes (2 ♂♂), USA, Washington, D.C., May, L. Howard; Pennsylvania, New Brighton. The two specimens comprise the original type series.
- purpuratus* Kawabe, 1965 (*Archips*); Tyo to Ga 16: 16. Holotype ♂, Japan, Gunma Pref., Mt. Akagi, 19–21 July 1964, A. Kawabe.
- purpurea* Dognin, 1904 (*Atteria*); Ann. Soc. Entomol. Belgium 48: 132. Holotype ♀, Ecuador, Environs de Loja, 1893.
- quadrifasciana* Fernald, 1882 (*Tortrix*); Trans. Am. Entomol. Soc. 10: 67. Two syntypes (2 ♂♂), USA, Maine. According to the original description, Fernald had specimens from Maine, New Hampshire, Massachusetts, New York, and Illinois. Although the number of

- specimens examined was not given in the description, Fernald's unpublished list of types donated to the USNM indicates three "cotypes."
- quercana* Fernald, 1882 (*Cenopsis*); Trans. Am. Entomol. Soc. 10: 69. Lectotype ♀ (designated here), USA, Texas, Dallas Co., Dallas, 29 May. Selected by Powell in 1965. Fernald described this species from four males and four females from New York, Missouri, and Texas.
- quercifoliata* Fitch, 1858 (*Tortrix*); New York Agric. Rept.: 826. "Type" ♂, USA, New York [no locality data on specimen label]. Fitch did not indicate the number of specimens he examined; this is the only Fitch specimen of this species we could find.
- radicana* Heinrich, 1923 (*Griselda*); Bull. U.S. Natl. Mus. 123: 186. Lectotype ♂, Canada, British Columbia, on spruce, G. Hewitt. Designated by Obraztsov (1965).
- rafaeliana* Razowski, 1989 (*Saphenista*); SHILAP Revta. Lepid. 17: 206. Holotype ♂, Colombia, Cauca, Paramo de Parace, Lake San Rafael, 3,570 m, 27 January 1959, J. Clarke.
- rana* Busck, 1907 (*Phalonia*); J. N. Y. Entomol. Soc. 15: 22. Holotype ♂, USA, Pennsylvania, Allegheny Co., Pittsburgh, 30 July 1905, H. Engel.
- razowskii* Kawabe, 1963 (*Tortricodes*) Tinea 6: 7. Holotype ♂, Japan, Chiba Pref., Narashino, 4 March 1958, A. Kawabe.
- razowskii* Kawabe, 1992 (*Clepsis*); Tinea 13: 178. Holotype ♂, Taiwan, Hualien Hsien, Kuanyuan, 2,400 m, 7–8 August 1987, A. Kawabe.
- reprobata* Clarke, 1976 (*Lobesia*); Insects of Micronesia 9: 104. Holotype ♀, Micronesia, Guam, Pt. Oca, 4 June 1945, Bohart and Gressitt.
- rescissoria* Heinrich, 1920 (*Eucosma*); Proc. U.S. Natl. Mus. 57: 58. Holotype ♂, USA, Oregon, Sprague River, r.f. cones of *Pinus murrayana*, 30 May 1914, P. Sergeant.
- retrusa* Razowski, 1993 (*Acleris*); Acta Zool. Cracov. 36: 191. Holotype ♀, Mexico, Jalapa, November 1963, r.f. *Rubus*, N. Krauss.
- rhodographa* Clarke, 1971 (*Dichelopa*); Smithsonian Contrib. Zool. 56: 103. Holotype ♂, Rapa Island, Perau, 1000' (307 m), r.f. *Veronica rapensis*, em: 18 November 1963, J. Clarke.
- rhoifructana* Kearfott, 1904 (*Polychrosis*); Trans. Am. Entomol. Soc. 30: 296. Holotype ♂, USA, Ohio, Wayne Co., Wooster, Insectory, 29 January 1884, Murtfeldt.
- rigidana* Fernald, 1880 (*Retinia*); in Comstock, Annu. Rep. Dept. Agric. 1880: 237. Lectotype ♀, USA, New York, Tompkins Co., Ithaca. Designated by Miller (1970).
- rosaocellana* Knudson, 1986 (*Eucosma*); J. Lepid. Soc. 40: 322. Holotype ♂, USA, Texas, Hemphill Co., Gene Howe WMA, 18 May 1985, E. Knudson.
- rubra* Kawabe, 1992 (*Neopotamia*); Japan. Hetero. J. 170: 358. Holotype ♂, Taiwan, Huslien Hsien, Hohuanshan, 3,100 m, 30 July–1 August 1983, A. Kawabe.
- ruidosana* Heinrich, 1923 (*Epinotia*); Bull. U.S. Natl. Mus. 123: 216. Holotype ♂, USA, New Mexico, Lincoln National Forest, Ruidosa Canyon, larvae mining leaves of "Alum root" [*Heuchera wootoni*], 8 May 1917, C. Heinrich.
- rurptimacula* Dognin, 1904 (*Tortrix*); Ann. Soc. Entomol. Belgium 48: 132. Holotype ♀, Ecuador, Cayanuma, Loja.
- ruscata* Heinrich, 1924 (*Epinotia cruciana*); J. Wash. Acad. Sci. 14:391. Holotype ♂, Canada, British Columbia, Victoria, 24 June 1923.
- russeola* Heinrich, 1929 (*Eucosma*); Proc. U.S. Natl. Mus. 75: 6. Holotype ♂, USA, California, Los Angeles Co., 11 June 1921, K. Coolidge.
- sabiniana* Kearfott, 1907 (*Evetria*); Trans. Am. Entomol. Soc. 33: 2. "Type" ♂, USA, California, Sacramento Co., r.f. *Pinus sabiniana*, 9 August 1885. Kear-

- fott described this species from two specimens, one in the USNM collection and one in his personal collection. Although the Kearfott collection is deposited at the AMNH, Klots (1942) makes no mention of a specimen of this species there.
- saetigera* Razowski, 1987 (*Terinebrica*); Tinea 12(suppl.): 137. Holotype ♂, Bolivia, Cochabamba, Incachaca, tropical cloud area, 2,100 m, 27 August–5 September 1956, L. Peña.
- sagax* Razowski, 1984 (*Polyortha*); Acta Zool. Cracov. 27: 221. Holotype ♂, Bolivia, Cochabamba, Incachaca, J. Steinbach.
- saileri* Clarke, 1987 (*Cryptophlebia*); Acta Entomol. Chilean 14: 7. Holotype ♂, Chile, Iquique Province, Region Tarapacá, Pampa Tamarugal, Fundo Refresco, r.f. *Prosopis tamarugo*, 29 June 1985, D. Bobadilla.
- salaciana* Blanchard & Knudson, 1981 (*Eucosma*); J. Lepid. Soc. 35: 176. Holotype ♂, USA, Texas, Nueces Co., North Padre Island, 13 October 1979, A. & M. Blanchard.
- saliciana* Clemens, 1864 (*Hedya*); Proc. Entomol. Soc. Philadelphia 3: 515. Syntype ♂, USA, [probably eastern U.S.; no data on specimen label or in original description], r.f. *Salix longifolia*, Walsh. Although Clemens indicated the number of specimens examined and the depository (e.g., "Coll. Ent. Soc. Philadelphia") for most species described in this work, he did not do so for this or the following species, *H. salicicolana*.
- salicicolana* Clemens, 1864 (*Hedya*); Proc. Entomol. Soc. Philadelphia 3: 515. Two syntypes (1 ♂, 1 ♀), USA, [probably eastern U.S.; no data on specimen labels or in original description], r.f. *Salix humilis*, Walsh.
- salmicolorana* Heinrich, 1923 (*Thiodia*); Bull. U.S. Natl. Mus. 123: 62. Holotype ♂, USA, Utah, Tooele Co., Stockton, 30 July 1913, T. Spalding.
- salmonicolor* Powell, 1978 (*Rhyacionia*); in Powell and Miller, U.S. Dept. Agric., Agric. Handb. 514: 15. Holotype ♂, USA, Texas, Jeff Davis Co., Davis Mtns., Mt. Locke, 19 May 1971, A. & M. Blanchard.
- salvadorana* Brown & Powell, 2000 (*Anopina*); Univ. Calif. Publ. Entomol. 120: 57. Holotype ♂, El Salvador, Cerro Miramundo, 2,300 m, 11 January 1969, S. Steinhäuser.
- salweenensis* Miller, 1977 (*Petrova*); J. Lepid. Soc. 31: 136. Holotype ♂, Thailand, Baw Luang, 20 March 1972, D. Chaiglom.
- sambuci* Clarke, 1952 (*Polychrosis*); J. Wash. Acad. Sci. 43: 228. Holotype ♂, USA, Illinois, Putnam Co., r.f. *Sambucus canadensis*, 5 July, M. Glenn.
- santacrucis* Obraztsov, 1963 (*Acleris*); Proc. U.S. Natl. Mus. 114: 225. Holotype ♂, USA, California, Santa Cruz Co., Santa Cruz, 29 October 1932, W. Tilden.
- santamariana* Razowski, 1988 (*Ortognaethosia*); Acta Zool. Cracov. 31: 392. Holotype ♂, Guatemala, Volcán Santa María, Barnes & Schaus.
- sapodilla* Heppner, 1981 (*Dichrorampha*); Florida Entomol. 64: 271. Holotype ♂, USA, Florida, Dade Co., Homestead, r.f. *Achras zapota*, 14 April 1974, R. Baronowski.
- saracana* Kearfott, 1907 (*Cenopsis*); Trans. Am. Entomol. Soc. 33: 68. "Type" ♂, USA, New Jersey, Essex Co., Essex County Park, hills above Montclair, July 1907, W. Kearfott. Kearfott described this species from one male and two females, two field-collected and one reared from sassafras. Klots (1942) does not mention this species in his treatment of Kearfott types in the AMNH.
- satoi* Kawabe, 1978 (*Pseudohedya*); Tinea 10: 174. Holotype ♂, Japan, Hokkaido, Mt. Tentosan, Abashiri, 4–5 August 1975, R. Sato.
- sayonae* Kawabe, 1985 (*Acleris*); Tinea 12: 5. Holotype ♂, Taiwan, Nantou Hsien,

- Nanshanchi, 25–26 July 1983, A. Kawabe.
- saxicolana* Walsingham 1879 (*Cochylis*); Ill. Lepid. Heter. Brit. Mus. 4: 29. Syntype ♂, USA, southern Oregon, end of May, 1872. Walsingham described this species from three males; the other two are presumed to be in the BMNH.
- scalaris* Diakonoff, 1968 (*Petrova*); U.S. Natl. Mus. Bull. 257: 86. Holotype ♀, Philippine Islands, Mountain Province, Luzon, base of Mt. Data, 5,500', 22 April 1946, CNHM Philippine Zool. Exped. 1946–47, H. Hoogstraal.
- scardiana* Dognin, 1905 (*Cnephasia*); Ann. Soc. Entomol. Belgium 49: 86. Holotype ♀, Ecuador, El Monje de Loja, 1894.
- schizodelta* Diakonoff, 1982 (*Grapholita*); Zool. Verhand. (Leiden) 193: 18. Holotype ♀, Sri Lanka, Ratnapura District, Uggalkaltota, 350', Irrigation Bungalow, 31 January–8 February 1970, D. Davis & B. Rowe.
- schwarziana* Busck, 1907 (*Phalonia*); J. N. Y. Entomol. Soc. 15: 25. Holotype ♀, USA, Maryland, Montgomery Co., Plummers Island (in Potomac River above Washington, D.C.), July 1903, A. Busck.
- scleroductus* Brown, 1991 (*Punctapinella*); Los Angeles Co. Mus. Contrib. Zool. 423: 4. Holotype ♀, Brazil, Rio de Janeiro, 3 July 1929, J. Zikán.
- sedatana* Busck, 1906 (*Hemimene*); Proc. Biol. Soc. Wash. 19: 177. Holotype ♂, USA, Colorado, South Park, 27 August 1905.
- segregata* Heinrich, 1924 (*Thiodia*); J. Wash. Acad. Sci. 14: 388. Holotype ♂, USA, California, Tulare Co., Monachee Meadows, "July 16–23."
- seiugata* Razowski, 1987 (*Terinebrica*); Tinea 12(suppl.): 138. Holotype ♀, Peru, Cusco, Machu Picchu, 2,385 m, 4 February 1959, J. Clarke.
- semicirculana* Fernald, 1882 (*Tortrix*); Trans. Am. Entomol. Soc. 10: 68. Lectotype ♂, USA, Colorado, Morrison, 1880. Designated by Brown and Powell (1991).
- senatrix* Heinrich, 1924 (*Exentera*); J. Wash. Acad. Sci. 14: 390. Holotype ♂, USA, Arizona, Cochise Co., Paradise, "March 8–15."
- senilis* Razowski, 1987 (*Silenis*); Tinea 12(suppl.): 128. Holotype ♂, Bolivia, Cochabamba, Incachaca, tropical cloud area, 17 August–5 September 1956, 2,100 m, L. Peña.
- seorsa* Heinrich, 1924 (*Epinotia*); J. Wash. Acad. Sci. 14: 392. Holotype ♂, Canada, British Columbia, Vavenby, 16 September 1922, T. Moilliet.
- separationis* Heinrich, 1923 (*Epiblema praesumptiosa*); Bull. U.S. Natl. Mus. 123: 143. Holotype ♂, USA, Texas, Cameron Co., Brownsville, 27 May 1917, A. Busck.
- seraphicana* Heinrich, 1923 (*Hystricophora asphodelana*); Bull. U.S. Natl. Mus. 123: 258. Holotype ♂, USA, Washington, Whitman Co., Pullman, 13 May 1898, C. Piper. Heinrich (1923) consistently misspelled *Hystrichophora* in his revision.
- serapicana* Heinrich, 1923 (*Eucosma*); Bull. U.S. Natl. Mus. 123: 266. Holotype ♂, USA, Montana, Cascade Co., Great Falls, 8 July 1921, H. Dyar.
- serena* Clarke, 1968 (*Cochylis*); Proc. U.S. Natl. Mus. 125: 20. Holotype ♂, Brazil, Santa Catarina, Nova Teutonia, July 1963, F. Plaumann.
- sertula* Diakonoff, 1982 (*Licigena*); Zool. Verhand. (Leiden) 193: 16. Holotype ♂, Sri Lanka, Kandy, Udawattekelle, 15–24 January 1970, D. Davis & B. Rowe.
- shastana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 46. Syntype ♂, USA, California, Siskiyou Co., Mount Shasta, August 1871. This species was described from two males: one syntype in the USNM and the other apparently in the BMNH.
- shastensis* McDunnough, 1955 (*Anchylopera columbiana*); Am. Mus. Novit.

- 1725: 12. Holotype ♂, USA, California, Siskiyou Co., Shasta Retreat, "June 8–15."
- shibatai* Kawabe, 1985 (*Archips*); *Tinea* 12: 1. Holotype ♂, Taiwan, Chia Hsien, Fenchihu, 1,400 m, 3 August 1973, Y. Shibata.
- shikokuensis* Kawabe, 1984 (*Epinotia*); *Tinea* 11: 187. Holotype ♂, Japan, Shikoku, Kagawa Pref., Oku-shio-iri, 5 August 1972, H. Toshima.
- shimekii* Kawabe, 1974 (*Zeiraphera*); *Tyoto Ga* 25: 97. Holotype ♂, Japan, Gunma Pref., Yunotaira, 26 July 1968, A. Kawabe.
- sicaria* Diakonoff, 1982 (*Acroclita*); *Zool. Verhandl. (Leiden)* 193: 55. Holotype ♂, Sri Lanka, Galle District, Kanneliya, 200', 15–17 October 1976, G. Hevel, R. Dietz, R. Karunaratne & D. Balasooriya.
- sierrae* Blanchard & Knudson, 1983 (*Eucosma*); *Proc. Entomol. Soc. Wash.* 85: 850. Holotype ♂, USA, Texas, Culbertson Co., Sierra Diablo Wildlife Management Area, 6,400', 30 August 1970, J. Franclemont.
- sierrae* McDunnough, 1955 (*Anchylopera simuloides*); *Am. Mus. Novit.* 1725: 14. Holotype ♂, USA, California, Tulare Co., Mineral King, "June 24–30."
- signiferana* Heinrich, 1923 (*Epinotia*); *Bull. U.S. Natl. Mus.* 123: 232. Holotype ♂, USA, California, San Diego Co., San Diego, 14 November 1911, W. Wright.
- silvertonana* Obraztsov, 1962 (*Anopina*); *Am. Mus. Novit.* 2082: 19. Holotype ♂, USA, Colorado, San Juan Co., Silverton, "July 24–31."
- silvertoniensis* Heinrich, 1923 (*Epinotia*); *Bull. U.S. Natl. Mus.* 123: 214. Holotype ♂, USA, Colorado, San Juan Co., Silverton, "July 16–23."
- simplex* Diakonoff, 1968 (*Ebodina*); *Bull. U.S. Natl. Mus.* 257: 35. Holotype ♂, Philippine Islands, Luzon, Mt. Makiling, Baker.
- simplex* McDunnough, 1925 (*Eucosma*); *Canad. Entomol.* 57:21. Holotype ♀, USA, Iowa, Woodbury Co., Sioux City, 7 May 1916.
- simpsoni* Busck, 1903 (*Carpocapsa pomonella*); *Proc. Entomol. Soc. Wash.* 5: 236. Holotype ♂, USA, Idaho, Ada Co., Boise, 8 August 1902, C. Simpson.
- simulata* Heinrich, 1928 (*Rhyacionia*); *Proc. Entomol. Soc. Wash.* 30: 62. Holotype ♀, Japan, Yokahama, r.f. *Pinus thunbergii*, em: 5 July 1924, A. Kariya.
- sinistra* Heinrich, 1926 (*Bactra*); *Bull. U.S. Natl. Mus.* 132: 87. Holotype ♀, USA, Louisiana, Sabine River Ferry, opposite Orange, Cornell University Lot 542, Sub 20, 20 June 1917.
- siskiyouensis* Heinrich, 1923 (*Epinotia pulsatillana*); *Bull. U.S. Natl. Mus.* 123: 202. Holotype ♂, USA, California, Siskiyou Co., Shasta Retreat, "Aug 16–23."
- skinnerana* Heinrich, 1923 (*Suleima*); *Bull. U.S. Natl. Mus.* 123: 157. Holotype ♂, USA, Arizona, Cochise Co., Huachuca Mountain, Carr Canyon, August 1905, H. Skinner.
- sonae* Clarke, 1949 (*Eulia*); *Acta Zool. Lilloana (Tucumán)* 7: 587. Holotype ♂, Brazil, Santa Catarina, 12 July 1935, F. Hoffmann.
- sotipena* Brown, 1986 (*Epinotia*); *J. Lepid. Soc.* 40: 341. Holotype ♀, USA, Maryland, Montgomery Co., Plummers Island, Potomac River, 7 April 1962, R. W. Hodges.
- spaldingiana* Obraztsov, 1961 (*Argyrotaenia*); *Am. Mus. Novit.* 2048: 20. Holotype ♂, USA, Utah, Utah Co., Provo, 4 August 1908, T. Spalding.
- spartinana* Barnes & McDunnough, 1916 (*Phalonia*); *Canad. Entomol.* 48: 144. Holotype ♂, USA, South Dakota, Union Co., Elk Point, r.f. *Spartina*, 30 July 1915, C. Ainslie.
- spectra* Brown, 1992 (*Catastega*); *J. N. Y. Entomol. Soc.* 100: 211. Holotype ♂, USA, Texas, Jeff Davis Co., Mt. Locke, McDonald Observatory, 19 July 1971, A. Blanchard.
- spinacea* Razowski, 1994 (*Psiathovalva*);

- SHILAP Revta. Lepid. 22: 69. Holotype ♂, Venezuela, Aragua, Rancho Grande, 1,100 m, 11–15 January 1966, S. & W. Duckworth.
- spinea* Razowski, 1999 (*Netechma*); Polski Pismo Entomol. 68: 93. Holotype ♂, Bolivia, Cochabamba, Incachaca, 2,100 m, tropical cloud area, 27 August–5 September 1956, L. Peña. Razowski (1999) incorrectly identifies the disposition of the type as NHMW.
- spiraefoliata* Heinrich, 1923 (*Polychrosis*); Proc. Entomol. Soc. Wash. 25: 106. Holotype ♂, USA, Pennsylvania, Luzerne Co., Hazleton, r.f. *Spiraea salicifolia*, “5/29-19c.”
- spirographa* Diakonoff, 1968 (*Bubonoxena*); Bull. U.S. Natl. Mus. 257: 66. Holotype ♂, Philippine Islands, Luzon, Mt. Makiling.
- stadiana* Barnes & Busck, 1920 (*Peronea*); Contrib. Nat. Hist. Lepid. North Am. 4: 217. Holotype ♂, Canada, Ontario, Ottawa, 18 September 1905, C. Young.
- stauroma* Diakonoff, 1968 (*Polemograptis*); Bull. U.S. Natl. Mus. 257: 33. Holotype ♂, Philippine Islands, Negros Oriental, Canlaon, 915 m, light trap, 20 December 1959, L. Quate.
- stellifera* Kawabe, 1978 (*Hiroshiinoueana*); Tinea 10: 181. Holotype ♂, Japan, Yakushima Island, Kurio, 7 August 1972, T. Watanabe.
- stenampyx* Diakonoff, 1982 (*Ancylis*); Zool. Verhand. (Leiden) 193: 64. Holotype ♂, Sri Lanka, Kandy District, Udawattekelle, 3 November 1966.
- stenotes* Clarke, 1976 (*Alcina*); Insects of Micronesia 9: 21. Holotype ♂, Micronesia, Guam, Tenjo, r.f. *Styphelia*, 16 May 1936, R. Usinger.
- stevensi* Powell, 1980 (*Decodes*); Pacific Insects 22: 90. Holotype ♂, USA, Colorado, Larimer Co., Owl Canyon, 12 km NW Fort Collins, June 1977, R. Stevens.
- straminoides* Grote, 1873 (*Conchylis*); Bull. Buffalo Soc. Nat. Sci. 1: 16. “Type” ♂, USA, New York, Buffalo. According to Fernald’s unpublished list, two Grote specimens of this species were received by the USNM; we found only one. The single Grote specimen cited above is clearly labeled as the type.
- striatus* Fernald, 1905 (*Archips*); Canad. Entomol. 37: 399. “Type” ♂, Canada, Quebec, A. Hanham. Fernald mentions 3 specimens in his description: a male from London, Ontario; a female from New Hampshire; and a male from Quebec. He indicated that the former two were in his personal collection and the last was in the USNM.
- striatana* Brown, 1999 (*Dimorphopalpa*); Pan-Pac. Entomol. 75: 88. Holotype ♂, Venezuela, Aragua, Rancho Grande, 1,100 m, 21–25 January 1966, S. & W. Duckworth.
- striatanoides* Brown, 1999 (*Dimorphopalpa*); Pan-Pac. Entomol. 75: 88. Holotype ♂, Ecuador, Carcá, Maldonado, 2,200 m, 6–11 January 1963, V. Becker.
- strigatella* Brown, 1992 (*Catastega*); J. N. Y. Entomol. Soc. 100: 216. Holotype ♂, USA, Texas, Brewster Co., Big Bend National Park, Chisos Basin, 29 July 1982, E. Knudson.
- strigosa* Heinrich, 1926 (*Aphania*); Bull. U.S. Natl. Mus. 132: 118. Holotype ♂, USA, Alaska, Dawson, 16 June 1916, B. Clark.
- strigulana* Brown & Obraztsov, 1991 (*Dorithia*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 46. Holotype ♀, Mexico, Veracruz, Las Vegas [= Las Vigas], 8,000', 1887, W. Schaus.
- stygiata* Dyar, 1903 (*Thiodia*); Proc. Entomol. Soc. Wash. 5: 230. Five syntypes (3 ♂♂, 2 ♀♀), USA, Colorado, Jefferson Co., Golden, May–June, Dyar & Caudell; syntype ♂, USA, Arizona, Williams. This species was described from the six specimens cited above. One male from Colorado was placed in the type collection, presumably by J. Clarke; the other specimens are in the main collection.
- suadana* Heinrich, 1923 (*Eucosma*); Bull.

- U.S. Natl. Mus. 123: 130. Holotype ♂, USA, Utah, Vineyard, 6 August 1912, T. Spalding.
- subcandida* Heinrich, 1929 (*Thiodia formosana*); Proc. U.S. Natl. Mus. 75: 1. Holotype ♂, Canada, Alberta, Bilby, 12 June 1924, O. Bryant.
- subditiva* Heinrich, 1929 (*Eucosma tahoensis*); Proc. U.S. Natl. Mus. 75: 9. Holotype ♂, USA, California, Lake Tahoe, Deer Park Springs, "June 24–30."
- subelectana* Kawabe, 1976 (*Olethreutes*); Tinea 10: 46. Holotype ♂, Japan, Ohmaki, Toyama Pref., 3 June 1951, M. Hoshino. Although the specimen is labeled "*Olethreutes pseudoereciana*," it is clearly the specimen referred to in the original description.
- subflavana* Walsingham, 1879 (*Paedisca*); Ill. Lepid. Heter. Brit. Mus. 4: 48. Syn-type ♂, USA, California. According to the original description, this species was described from two males and one female from Rouge River, Oregon, end of May 1871. The USNM specimen bears a typical Walsingham type label and is presumed to be part of the original series; we cannot explain the discrepancy in the locality data.
- subminimana* Heinrich, 1923 (*Thiodia*); Bull. U.S. Natl. Mus. 123: 61. Holotype ♂, USA, California, San Diego Co., San Diego, "Aug 1–7."
- subolivata* Clarke, 1955 (*Orthocomtis*); Trans. Royal Entomol. Soc. London 107: 148. Holotype ♂, Costa Rica, Cartago Province, Tuis, 5,800', 28 August 1908, W. Schaus.
- subretracta* Kawabe, 1976 (*Olethreutes*); Tinea 10: 45. Holotype ♂, Japan, Tokyo, Mt. Takao, 11 June 1952, M. Hoshino & T. Haga.
- subsolana* Miller, 1978 (*Larisa*); J. Lepid. Soc. 32: 258. Holotype ♂, USA, Arkansas, Washington Co., Devil's Den State Park, 26 June 1966, R. Hodges.
- subretiniana* Obraztsov, 1962 (*Choristoneura*); Am. Mus. Novit. 2101: 9. Holotype ♂, USA, California, Tulare Co., Monachee Meadows, 8,000', "July 16–23."
- substitutionis* Heinrich, 1923 (*Gypsonoma*); Bull. U.S. Natl. Mus. 123: 163. Holotype ♂, Canada, Manitoba, Aweme, 27 July 1905, Criddle.
- subtropica* Miller, 1960 (*Rhyacionia*); J. Lepid. Soc. 14: 231. Holotype ♀, USA, Florida, Okaloosa Co., Valparaiso, r.f. *Pinus*, em: 26 May 1927, E. Gemner.
- subviridis* Heinrich, 1929 (*Epinotia*); Proc. U.S. Natl. Mus. 75: 15. Holotype ♂, USA, California, San Diego Co., San Diego, 5 July 1921 [genitalia slide only; pinned specimen has not been found]. A paratype specimen is also in the type collection.
- sugii* Kawabe, 1976 (*Epiblema*); Tinea 10: 42. Holotype ♂, Japan, Tokyo, Seta-gaya, 16 June 1963, A. Kawabe.
- sugii* Kawabe, 1989 (*Dichrorampha*); Tinea 12: 196. Holotype ♂, Taiwan, Hualien Hsien, Kuanyuan, 2,400 m, 7–8 August 1987, A. Kawabe.
- sulawesiensis* Kawabe, 1993 (*Bathypluta*); Tyo to Ga 43: 237. Holotype ♀, N Sulawesi, Tandano, December 1988.
- sulphurica* Razowski, 1999 (*Netechma*); Polski Posmo Entomol. 68: 95. Holotype ♀, Brazil, Santa Catarina, 21 January 1936, F. Hoffman. Razowski (1999) incorrectly identifies the disposition of the type as NHMW.
- superba* Razowski, 1988 (*Clarkenia*); Acta Zool. Cracov. 31: 406. Holotype ♂, Colombia, Cauca, Paramo de Parace, Lake San Rafael, 3,570 m, 27 January 1959, J. Clarke.
- symphyla* Razowski, 1984 (*Polyortha*); Acta Zool. Cracov. 27: 222. Holotype ♂, Bolivia, Cochabamba, Incachaca, J. Steinbach.
- synchysis* Pogue, 1986 (*Apolychrosis*); in Cibrián-Tovar et al., Cone and Seed Insects of the Mexican Conifers: 27. Holotype ♂, Mexico, Tlaxcala, Municipio de Terrenate, Villareal, r.f., *Abies religiosa*, em: 10 January 1985.
- synneurana* Barnes & Busck, 1920 (*Amor-*

- bia*); Contrib. Nat. Hist. Lepid. North Am. 4: 211. Holotype ♀, USA, Arizona, Redington.
- taedana* Miller, 1978 (*Petrova*); Ann. Entomol. Soc. Am. 71: 337. Holotype ♀, USA, Florida, Seminole Co., Geneva, 21 May 1967, R. Leuschner.
- taetera* Razowski, 1984 (*Histurodes*); Acta Zool. Cracov. 27: 214. Holotype ♂, Guatemala, Cerro Zunil, 4,000–5,000', Champion.
- tahoensis* Heinrich, 1923 (*Eucosma*); Bull. U.S. Natl. Mus. 123: 112. Holotype ♂, USA, California, Lake Tahoe, Deer Park Springs, "July 8–15."
- taiwana* Kawabe, 1986 (*Zeiraphera*); Entomol. Pap. Pres. Kurosawa, Tokyo: 79. Holotype ♂, Taiwan, Chiai Hsien, Alishan, 2,200 m, 12 August 1974, Y. Kishida.
- taiwana* Kawabe, 1992 (*Acleris*); Tinea 13: 174. Holotype ♂, Taiwan, Nantou Hsien, Tayuling, forest, 2,500 m, 9–18 June 1980, D. Davis.
- taiwana* Kawabe, 1992 (*Neopotamia cryptocosma*); Japan. Hetero. J. 170: 359. Holotype ♂, Taiwan, Hualien Hsien, Kuanyuan, 2,400 m, 7–8 August 1987, A. Kawabe.
- taiwanensis* Kawabe, 1985 (*Archips*); Tinea 12: 3. Holotype ♂, Taiwan, Nantou Hsien, Lushan Spa, 1,200 m, 27–29 July 1983, A. Kawabe.
- taiwanica* Razowski, 1977 (*Aethes cnicana*); Tyo to Ga 28: 37. Holotype ♂, Taiwan, Tattaka, 6 June 1943, S. Issiki.
- taleana* Grote, 1878 (*Grapholitha*); Canad. Entomol. 10: 54. Holotype ♂ (only a forewing), USA, Illinois, T. Bean. The original description appears to have been based on a single male specimen.
- tamaensis* Kawabe, 1974 (*Epinotia*); Tyo to Ga 25: 96. Holotype ♂, Japan, Tokyo, Tama Hill, 22 April 1958, A. Kawabe.
- tambomachaya* Razowski, 1988 (*Seticosta*); Acta Zool. Cracov. 31: 401. Holotype ♀, Peru, Cusco, Tambomachaya, 3,690 m, 3 February 1959, J. Clarke.
- tantilla* Heinrich, 1926 (*Satronia*); Bull. U.S. Natl. Mus. 132: 17. Holotype ♂, USA, Florida, Alachua Co., Archer, 4 May 1882.
- tayulingensis* Kawabe, 1986 (*Dichrorampha*); Entomol. Pap. Pres. Kurosawa, Tokyo: 83. Holotype ♂, Taiwan, Hualien Hsien, Tayuling, 2,560 m, 2–3 August 1983, A. Kawabe.
- taxifoliella* Busck, 1914 (*Evetria*); Proc. Entomol. Soc. Wash. 16: 146. Holotype ♀, USA, Montana, Missoula Co., hill at canyon east of Missoula, r.f. *P. taxifolia*, 24 April 1913, J. Brunner.
- telesocia* Razowski, 1994 (*Cylichneulia*); SHILAP Revta. Lepid. 22: 68. Holotype ♂, Venezuela, Aragua, Rancho Grande, 1,100 m, 16–19 January 1966, S. & W. Duckworth.
- temerana* Busck, 1907 (*Phalonia*); J. N. Y. Entomol. Soc. 15: 28. Holotype ♂, USA, Pennsylvania, Allegheny Co., Oak Station, 21 May 1906, F. Marloff.
- tenebrica* Heinrich, 1929 (*Anchylopera*); Proc. U.S. Natl. Mus. 75: 17. Holotype ♂, Canada, Alberta, Bilby, 12 June 1924, O. Bryant.
- tenebrica* Razowski, 1987 (*Terinebrica*); Tinea 12(suppl.): 135. Holotype ♂, Peru, Cusco, Machu Picchu, 2,385 m, 6 February 1959, J. Clarke.
- terminana* Busck, 1907 (*Hysterosia*); J. N. Y. Entomol. Soc. 15: 33. Holotype ♂, USA, Pennsylvania, Allegheny Co., Pittsburgh, H. Engel.
- tetropsis* Busck, 1913 (*Eucosma*); Insect. Inscit. Menst. 1: 91. Holotype ♂, British Guiana, Kirby, r.f. guava, H. Moore.
- teutoniana* Brown, 1999 (*Dimorphopalpa*); Pan-Pac. Entomol. 75: 89. Holotype ♂, Brazil, Santa Catarina, Nova Teutonia, 27°11'S, 52°23'W, 300–500 m, September 1963, F. Plaumann.
- texasana* Blanchard & Knudson, 1984 (*Anopina*); Proc. Entomol. Soc. Wash. 86: 449. Holotype ♂, USA, Texas, Jeff Davis Co., Mt. Locke, 6,700', 26 April 1981, E. Knudson.
- thelmae* Diakonoff, 1968 (*Capua*); Bull.

- U.S. Natl. Mus. 257: 23. Holotype ♂, Philippine Islands, Mindanao, Bukidnon, Mt. Katanglad, 1,480 m, 27–31 October 1959, L. Quate & C. Yashimoto. Although the holotype is labeled "*Capua thalmae*," the original description uses the correct spelling of "*thelmae*."
- theodora* Clarke, 1976 (*Herpystis*); Insects of Micronesia 9: 76. Holotype ♂, Micronesia, Kusaie, Mutunlik, 22 m, 24 January–30 April 1953, J. Clarke.
- theta* Brown, 1991 (*Punctapinella*); Los Angeles Co. Mus. Contrib. Zool. 423: 4. Holotype ♀, Venezuela, Aragua, Rancho Grande, 1,100 m, 15–21 August 1967, R. Poole.
- thylacophora* Diakonoff, 1968 (*Peridaedala*); Bull. U.S. Natl. Mus. 257: 76. Holotype ♂, Philippine Islands, Davao Province, Mindanao, E. slope Mt. McKinley, 17 September 1946, CNHM Philippine Zool. Exped., H. Hoogstraal.
- tocullionana* Heinrich, 1920 (*Eucosma*); Proc. U.S. Natl. Mus. 57: 59. Holotype ♂, USA, Connecticut, Lyme, r.f. cones of *Picea*, em: 16 May 1916, A. Champlain.
- tokui* Kawabe, 1974 (*Didrimys*); Tyo to Ga 25: 101. Holotype ♂, Japan, Yakushima Island, Aiko-dake, 30 March 1972, T. Watanabe.
- tokui* Kawabe, 1974 (*Eudemopsis*); Kontyu 42: 389. Holotype ♂, Japan, Yakushima Island, Mt. Aiko-dake, 8 June 1972, T. Watanabe.
- tonsilis* Razowski, 1984 (*Ardentica*); Acta Zool. Cracov. 27: 217. Holotype ♂, Costa Rica, Cartago Province, Juan Vinas.
- tonto* Powell, 1980 (*Decodes*); Pacific Insects 22: 93. Holotype ♀, USA, Arizona, Pinal-Gila Co. line, Miami Superior Highway, 4,790', 1–15 April 1925, O. Poling.
- toreuta* Grote, 1873 (*Penthina*); Bull. Bufalo Soc. Nat. Sci. 1: 92. Holotype ♂, USA, Pennsylvania.
- tornosema* Clarke, 1968 (*Phalonia*); Proc. U.S. Natl. Mus. 125: 12. Holotype ♀, Guatemala, Volcán Santa María, June, Schaus and Barnes.
- torostoma* Clarke, 1972 (*Laspeyresia*); Proc. Entomol. Soc. Wash. 74: 467. Holotype ♀, Costa Rica, Cartago Province, Turrialba, r.f. string bean stems, 8 March 1965, L. Bonnefil.
- toshimai* Kawabe, 1974 (*Eudemopsis*); Kontyû 42: 389. Holotype ♂, Japan, Kochi Pref., Mt. Ashizuriyama, Cape Ashizuri, 27 May 1973, H. Toshima.
- toshimai* Kawabe, 1978 (*Griselda*); Tinea 10: 186. Holotype ♂, Japan, Shikoku, Kagawa Pref., 15 July 1972, T. Toshima.
- towadaensis* Kawabe, 1978 (*Statherotis*); Tinea 10: 176. Holotype ♂, Japan, Honshu, Aomori Pref., Towada, 3 August 1969, Sato & Oshima.
- trema* Brown & Obraztsov, 1991 (*Cuproxena*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 56. Holotype ♂, Mexico, Guerrero, December 1920, R. Muller.
- triangulana* Brown, 1992 (*Catastega*); J. N. Y. Entomol. Soc. 100: 220. Holotype ♂, USA, Arizona, Gila Co., 4 mi ESE Pine, 4,500 ft, 1 September 1961, R. W. Hodges.
- triangulana* Kearfott, 1908 (*Tortrix*); J. N. Y. Entomol. Soc. 16: 179. Lectotype ♂, USA, California, San Diego Co., San Diego, 31 July 1907. Designated by Obraztsov (1962).
- tricia* Clarke, 1976 (*Heleanna physalodes*); Insects of Micronesia 9: 17. Holotype ♂, Micronesia, Kapingamarani Atoll, Hare Island, r.f. *Callophyllum inophyllum*, 3 August 1946, Townes.
- tridens* Razowski, 1988 (*Seticosta*); Acta Zool. Cracov. 31: 400. Holotype ♂, Colombia, Cauca, Paramo de Parace, Lake San Rafael, 3,570 m, 27 January 1959, J. Clarke.
- trifida* Adamski, 1986 (*Apotomis*); Canad. Entomol. 118: 666. Holotype ♂, USA, Washington, Ferry Co., Sherman Pass, 23 July 1962, J. Clarke.

- triopis* Diakonoff, 1959 (*Cryptasasma*); Zool. Verhandl. (Leiden) 43: 32. Holotype ♂, Guam Island, Commander Mariana's Hill, March 1949, K. Maehler.
- triphra* Brown & Obraztsov, 1991 (*Cuproxena*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 56. Holotype ♂, Panama, Cabima, May 1911, A. Busck.
- triquetra* Obraztsov, 1964 (*Proeulia*); Proc. U.S. Natl. Mus. 116: 189. Holotype ♂, Chile, Nuble, Chillán, 10 November 1961, H. Lister.
- tristriata* Kearfott, 1907 (*Sparganothis*); Trans. Am. Entomol. Soc. 33: 67. Syn-type ♂, USA, Minnesota, Duluth. Unpublished lectotype selected by R. Lambert, labeled by J. Powell. Klots (1942) indicated that there was a female "co-type" in the AMNH, but did not designate it as the lectotype.
- tsugae* Issiki, 1961 (*Epagoge*); in Issiki and Mutuura, Microlepidoptera injurious to coniferous plants in Japan: 36. Holotype ♂, Japan, Osaka, Ikeda Pref., 23 May 1958, T. Kodama. Komai (1999) unnecessarily designated a lectotype for this species; apparently he was unaware that the holotype was deposited in the USNM.
- tsuifengana* Kawabe, 1992 (*Acleris*); Tinea 13: 175. Holotype ♂, Taiwan, Nantou Hsien, Tsuifeng, 2,400 m, 29 December 1989, A. Kawabe.
- tsushimaensis* Kawabe, 1978 (*Hedya*); Tinea 10: 173. Holotype ♂, Japan, Tsushima Island, Nenbutsuzaka, 27 June 1973, T. Watanabe.
- turbula* Clarke, 1968 (*Irazona*); Proc. U.S. Natl. Mus. 125: 40. Holotype ♀, Guatemala, Volcán Santa María, July, Schaus and Barnes.
- turalba* Busck, 1920 (*Hysterosia*); Insect. Inscit. Menst. 8: 86. Holotype ♀, Costa Rica, Cartago Province, Juan Vinas, February, W. Schaus.
- twila* Clarke, 1955 (*Orthocomotis*); Trans. Royal Entomol. Soc. London 107: 152. Holotype ♂, Brazil, Santa Catarina, Nova Teutonia, February 1948, F. Plau-mann.
- ulteriorana* Heinrich, 1920 (*Evetria*); Proc. U.S. Natl. Mus. 57: 55. Holotype ♂, USA, Oregon, Waldo, r.f. *Psuedotsuga taxifolia*, 16 August 1914, Keen & Ser-gent.
- umbrana* Barnes & Busck, 1920 (*Spargan-othis*); Contrib. Nat. Hist. Lepid. North Am. 4: 212. Holotype ♂, USA, Colo-rado, Adams Co., Denver, Oslar.
- umbraticana* Heinrich, 1923 (*Thiodia*); Bull. U. S. Natl. Mus. 123: 70. Holo-type ♂, USA, Colorado, Jefferson Co., foothills above Golden, 13 March 1901, Dyar & Caudell.
- unciana* Dognin, 1904 (*Atteria*); Ann. Soc. Entomol. Belgium 48: 133. Holotype ♀, Ecuador, Zamora, September 1886.
- undata* Walsingham, 1914 (*Tortrix*); Biol. Centr.-Am., Lepid., Heter. 4: 286. Ho-lotype ♂, Mexico, Puebla, Popocatepetl Park, 8,000', June 1906, W. Schaus.
- unguiculus* Clarke, 1951 (*Episimus*); J. Wash. Acad. Sci. 41: 297. Holotype ♀, Argentina, Tigre, March 1946, F. Bour-quin.
- unica* Heinrich, 1923 (*Epinotia*); Bull. U.S. Natl. Mus. 123: 221. Holotype ♂, USA, Tennessee, Knox Co., Knoxville, r.f. *Bradburya virginiana*, G. Ainslie.
- urbana* Busck, 1912 (*Tortrix*); Proc. Ento-mol. Soc. Wash. 14: 86. Holotype ♂, Mexico, Mexico City, November 1911, R. Muller.
- ustulatana* Blanchard & Knudson, 1983 (*Eucosma*); Proc. Entomol. Soc. Wash. 85: 849. Holotype ♂, USA, Texas, Washington Co., Brenham, 4 June 1979, E. Knudson.
- usuiana* Kawabe, 1976 (*Epibactra*); Tinea 10: 39. Holotype ♂, Japan, Gunma Pref., Usui Pass, 5 June 1951, M. Hosh-ino.
- usurpata* Razowski, 1987 (*Utrivalva*); Bull. Polish Acad. Sci. 35: 67. Holotype ♂,

- Guatemala, Volcán Santa María, W. Schaus.
- uta* Clarke, 1953 (*Eucosma*); J. Wash. Acad. Sci. 43: 226. Holotype ♂, USA, Illinois, Putnam Co., 10 July 1938, M. Glenn.
- vaccinii* Clarke, 1971 (*Dichelopa*); Smithsonian Contrib. Zool. 56: 107. Holotype ♂, Rapa Island, Maugaoa, 950' (292 m), r.f. *Veronica rapensis*, 5 November 1963, J. & T. Clarke.
- vagana* Heinrich, 1923 (*Epinotia*); Bull. U.S. Natl. Mus. 123: 230. Holotype ♂, USA, Washington, Liaga, r.f. *Pyrus rivularis* [wild crab apple], 20–24 July 1918, em: 20 July 1918, E. Heckard.
- variana* Fernald, 1886 (*Teras*); Bull. U.S. Dept. Agric. Entomol. 12: 17. "Type" ♂, USA, Maine. This is the only example of this species we could locate from the Fernald Collection. Fernald did not indicate how many specimens he examined.
- varnicosa* Brown, 2000 (*Lobogenesis*); Proc. Entomol. Soc. Wash. 102: 36. Holotype ♀, Argentina, Tucumán, Ciudad Universitaria, 17 February 1959, J. Clarke.
- venatana* Kawabe, 1992 (*Acleris*); Tinea 13: 178. Holotype ♂, Taiwan, Nantou Hsien, Tsuifeng, 2,400 m, 29 December 1989, A. Kawabe.
- verecundana* Blanchard, 1979 (*Phaneta*); J. Lepid. Soc. 33: 210. Holotype ♂, USA, Texas, Hemphill Co., Canadian, 15 August 1971, A. & M. Blanchard.
- versicolor* Powell, 1978 (*Rhyacionia*); in Powell and Miller, U.S. Dept. Agric., Agric. Handb. 514: 30. Holotype ♂, USA, Arizona, Coconino Co., Fort Valley, 7.5 mi NW Flagstaff, 29 June 1961, R. Hodges.
- vesta* Clarke, 1968 (*Phalonia*); Proc. U.S. Natl. Mus. 125: 14. Holotype ♂, Venezuela, Aragua, Rancho Grande, 1,100 m, 16–23 October 1966, S. & W. Duckworth.
- victoriana* Busck, 1921 (*Cacoecia*); Canad. Entomol. 53: 278. Holotype ♂, Canada, British Columbia, Victoria, 22 July 1920, E. Blackmore.
- vietnamna* Kawabe, 1993 (*Cerace*); Tyo to Ga 44: 99. Holotype ♀, North Vietnam, Mt. Tam Dao, 20–31 July 1990, Mizunuma.
- villana* Busck, 1907 (*Hysterosia*); J. N. Y. Entomol. Soc. 15: 34. Holotype ♂, USA, Colorado, Adams Co., Denver, 21 June 1905, Oslar.
- violetana* Kawabe, 1964 (*Philedone*); Tyo to Ga 15: 3. Holotype ♂, Japan, Honshu, Tokyo, Nippara, 16 September 1963, A. Kawabe.
- virga* Clarke, 1949 (*Eulia*); Acta Zool. Lilloana (Tucumán) 7: 585. Holotype ♂, Brazil, Santa Catarina, Nova Teutonia, 27°11'S, 52°23'W, February 1948, F. Plaumann.
- virginiana* Busck, 1914 (*Evetria*); Proc. Entomol. Soc. Wash. 16: 145. Holotype ♀, USA, Virginia, Fairfax Co., Falls Church, r.f. *Pinus virginiana*, em: 4 May 1914, C. Heinrich.
- viridana* Barnes & Busck, 1920 (*Platynota*); Contrib. Nat. Hist. Lepid. North Am. 4: 213. Holotype ♂, USA, Arizona, Yavapai Co., Dewey, "May 1–7."
- virifloscula* Brown, 1991 (*Cuproxena*); in Brown and Powell, Univ. Calif. Publ. Entomol. 111: 67. Holotype ♂, Venezuela, Aragua, Rancho Grande, 1,100 m, 8–14 August 1967, R. Poole.
- vittrana* Walsingham, 1879 (*Grapholitha*) Ill. Lepid. Heter. Brit. Mus. 4: 65. Syn-type ♂, USA, Oregon (northern), April 1872. According to the original description, this species was described from four males; the other syntypes are presumed to be in the BMNH.
- wellingtoniana* Kearfott, 1907 (*Olethreutes*); Trans. Am. Entomol. Soc. 33:13. Lectotype ♂, Canada, British Columbia, Wellington, 19 May, G. W. Taylor. Designated by Blanchard & Knudson (1984).
- wielgusi* Clarke, 1990 (*Argyrotaenia*); J.

- Res. Lepid. 28: 97. Holotype ♀, USA, Arizona, Cochise Co., Huachuca Mts., Pueblo del Sol, 6 November 1986, R. Wielgus.
- willettana* J. Comstock, 1939 (*Carolella busckana*); Bull. South. Calif. Acad. Sci. 38: 115. Holotype ♂, USA, California, Riverside Co., Chuckwalla Springs, 25 December 1937, G. Willett.
- worthingtoniana* Fernald, 1878 (*Paedisca*); Canad. Entomol. 10: 83. Lectotype ♂, USA, "North Illinois." Designated by Miller (1970).
- wrighti* Brown & Powell, 2000 (*Anopina*), Univ. Calif. Publ. Entomol. 120: 98. Holotype ♂, USA, Colorado, Chaffee Co., 2.5 mi ESE Buena Vista, 23 August 1997, D. Wright.
- yama* Kawabe, 1974 (*Olethreutes bipunctana*); Tyo to Ga 25: 102. Holotype ♂, Japan, Hokkaido, Mt. Daisetsu, 23 July 1959, M. Suzuki.
- yasudai* Kawabe, 1972 (*Cryptophlebia*); Tinea 9: 242. Holotype ♂, Japan, Saitama Pref., Owa, 7 August 1952, T. Haruta.
- yasutoshii* Kawabe, 1985 (*Acleris*); Tinea 12: 9. Holotype ♂, Taiwan, Taichung Hsien, Lishan, 24 August 1970, Y. Shibata.
- yuccatana* Busck, 1907 (*Phalonia*); J. N. Y. Entomol. Soc. 15: 23. Holotype ♀, USA, Texas, Nueces Co., Nuecestown, r.f. *Yucca baccata*, 12 April 1897, C. Marlatt.
- yakushimensis* Kawabe, 1974 (*Notocelia*); Tyo to Ga 25: 96. Holotype ♂, Japan, Yakushima Island, Onoaida, 7 October 1972, T. Watanabe.
- zacualpana* Busck, 1913 (*Phtheochroa*); Insect. Incit. Menst. Wash. 1: 141. Holotype ♀, Mexico, Zacualpan, July 1913, R. Muller.
- zeteles* Razowski, 1987 (*Chicotortrix*); Tinea 12(suppl.): 124. Holotype ♂, Colombia, Bogotá, Chico, 25 January 1959, J. Clarke.
- zimapanus* Powell, 1980 (*Decodes*); Pacific Insects 22: 107. Holotype ♀, Mexico, Hidalgo, 3 mi E Zimapan, 6,400', 31 July–1 August 1963, W. Duckworth & D. Davis.
- zona* Clarke, 1986 (*Dichelopa*); Smithsonian Contrib. Zool. 416: 144. Holotype ♂, Marquesas Islands, Nuku Hiva, Tapuaoa, 2,500', 30 January 1968, J. & T. Clarke.

ACKNOWLEDGMENTS

This list was begun by Brown in 1988 during a one-year Smithsonian Post-doctoral Fellowship, with the encouragement and assistance of the late J. F. Gates Clarke. From 1989 to about 1993 Clarke continued to supply the names of type specimens as they slowly surfaced from the USNM collection or were returned by colleagues. Jack had a strong "collection-bias," and we believe he would have been pleased to see the USNM type collection thoroughly organized and catalogued.

We thank the following for helpful comments on the list: William Miller, University of Minnesota, St. Paul; Eric Grissell and David Smith, Systematic Entomology Laboratory, USDA, National Museum of Natural History, Washington, DC; Richard Brown, Mississippi Entomological Museum, Mississippi State University, Mississippi; Kevin Tuck, The Natural History Museum, London, England.

LITERATURE CITED

- Blanchard, A. 1979. New status for *Epiblema minutana* (Kearfott) and new species of *Epiblema* Hübner and *Sonia* Heinrich (Tortricidae). Journal of the Lepidopterists' Society 33: 179–188.
- Blanchard, A. and E. Knudson. 1984. Three new tortricids (Lepidoptera) from Texas. Proceedings of the Entomological Society of Washington 86: 446–451.
- Brown, J. W. 1998. A new genus of tortricid moths from Chile related to *Varifula* Razowski (Lepidoptera: Tortricidae). Journal of the Lepidopterists' Society 52: 177–181.
- Brown, J. W. and J. A. Powell. 1991. Systematics of the *Chrysoxena* group of genera (Lepidoptera: Tortricidae: Euliini). University of California Publications in Entomology 111: 1–87.

- Caudell, A. N. 1902. Some insects from the summit of Pike's Peak, found on snow. *Proceedings of the Entomological Society of Washington* 5: 74–83.
- Clarke, J. F. G. 1955. Neotropical moths of the genus *Orthocomotis* Dognin (Lepidoptera: Tortricidae). *Transactions of the Royal Entomological Society of London* 107: 139–168.
- . 1968. Neotropical Microlepidoptera, XVII. Notes and new species of Phalonidae. *Proceedings of the United States National Museum* 125: 1–58.
- . 1971. The Lepidoptera of Rapa Island. *Smithsonian Contributions to Zoology* 56: 1–282.
- . 1974. Presidential Address—1973. The National Collection of Lepidoptera. *Journal of the Lepidopterists' Society* 28: 181–204.
- . 1976. Insects of Micronesia. *Microlepidoptera: Tortricodea*, Vol. 9(1). Bernice P. Bishop Museum, Honolulu, HI.
- Davis, D. 1985. Donation of Blanchard Lepidoptera Collection to the Smithsonian Institution. *Journal of the Lepidopterists' Society* 39: 235–236.
- . 1996. Donation of the Atsushi Kawabe Lepidoptera collection to the Smithsonian Institution. *Journal of the Lepidopterists' Society* 50: 270–271.
- Diakonoff, A. 1968. Microlepidoptera of the Philippine Islands. *Bulletin of the United States National Museum* 257: 1–484.
- . 1982. On a collection of microlepidoptera from Sri Lanka (Ceylon). *Zoologische Verhandlungen (Leiden)* 193: 1–124.
- Dyar, H. G. 1903 [1902]. A list of North American Lepidoptera. *Bulletin of the United States National Museum* 52: 1–723.
- Freeman, T. N. 1958. The Archipinae of North America (Lepidoptera: Tortricidae). *The Canadian Entomologist* 90(supplement): 1–89.
- Heinrich, C. 1923. Revision of the North American moths of the subfamily Eucosminae of the family Olethreutidae. *Bulletin of the United States National Museum* 123: 1–298.
- Heinrich, C. 1926. Revision of the North American moths of the subfamilies Laspeyresinae and Olethreutinae. *Bulletin of United States National Museum* 132: 1–207.
- Klots, A. B. 1942. Type material of North American Microlepidoptera other than Aegeriidae in the AMNH. *Bulletin of the American Museum of Natural History* 79: 391–424.
- Komai, F. 1999. A taxonomic review of the genus *Grapholita* and allied genera (Lepidoptera: Tortricidae) in the Palaearctic region. *Entomologica Scandinavica supplement* 55, 226 pp.
- Miller, W. E. 1967. Taxonomic review of the *Rhyacionia frustrana* group of pine-tip moths, with description of a new species (Olethreutidae). *Canadian Entomologist* 99: 590–596.
- . 1970. Fernald types of North American Olethreutinae (Lepidoptera: Tortricidae). *Proceedings of the Entomological Society of Washington* 72: 288–294.
- . 1973. Two previously unrecognized scientific names for the strawberry leafroller (Lepidoptera: Tortricidae). *Annals of the Entomological Society of America* 66: 553–554.
- . 1983. New synonymies in Nearctic *Dichrorampha* (Lepidoptera: Tortricidae). *Proceedings of the Entomological Society of Washington* 85: 727–733.
- Obraztsov, N. 1961. Descriptions of and notes on North and Central American species of *Argyrotaenia*, with the description of a new genus (Lepidoptera, Tortricidae). *American Museum Novitates* 2048: 1–42.
- . 1962. *Anopina*, a new genus of the Cnephasiini from the New World (Lepidoptera: Tortricidae). *American Museum Novitates* 2082: 1–39.
- . 1963. Some North American moths of the genus *Acleris* (Lepidoptera: Tortricidae). *Proceedings of the United States National Museum* 114: 213–270.
- . 1964. Neotropical Microlepidoptera, V. Synopsis of the species of the genus *Proentlia* from central Chile (Lepidoptera: Tortricidae). *Proceedings of the United States National Museum* 116: 183–196.
- . 1965. On *Paedisca radicans* and the type species of the genus *Griselda* (Lepidoptera, Tortricidae, Olethreutinae). *American Museum Novitates* 2213: 1–16.
- . 1966a. Neotropical Microlepidoptera, VIII. New genus *Pseudomeritastis* and its species (Lepidoptera: Tortricidae). *Proceedings of the United States National Museum* 118: 221–232.
- . 1966b. Neotropical Microlepidoptera, IX. Revision of genus *Pseudatteria* (Lepidoptera: Tortricidae). *Proceedings of the United States National Museum* 118: 577–622.
- . 1966c. Neotropical Microlepidoptera, XI. Revision of genus *Idolaterria* (Lepidoptera: Tortricidae). *Proceedings of the United States National Museum* 119: 1–12.
- Razowski, J. 1999. Synopsis of *Icteralaria* and *Neotechma* Razowski (Lepidoptera: Tortricidae) with description of new taxa. *Polskie Pismo Entomologiczne* 68: 91–106.
- Riley, C. V. 1881. Descriptions of some new Tortricidae (leaf-rollers). *Transactions of the St. Louis Academy of Science* 4: 1–9.
- Rubinoff, D. and J. A. Powell. 1999. Description of *Diedra*, new genus (Lepidoptera: Tortricinae: Archipini), and three new species, based on phylogenetic analysis. *Annals of the Entomological Society of America* 92: 473–487.

- Smith, J. B. 1891. List of the Lepidoptera of Boreal North America. American Entomological Society, Philadelphia, 124 pp.
- Walsingham, Lord T. de Grey. 1979. Illustrations of typical specimens of Lepidoptera Heterocera in the collection of the British Museum. Part IV. North American Tortricidae. Trustees of the British Museum, London.
- . 1914. Lepidoptera-Heteroptera, Vol. 4. Tineina, Pterophorina, Ornueodina, and Pyralidina and Hepialidina (part). *In* Biologia Centrali-Americana. Insects. British Museum, London. 482 pages.